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# 1990 Annual Statistical Report

AMERICAN IRON AND STEEL INSTITUTE

# Annual Statistical Report

## AMERICAN
## IRON AND STEEL
## INSTITUTE
## 1990

AMERICAN IRON AND STEEL INSTITUTE
1133 15TH STREET, N.W., WASHINGTON, D.C. 20005

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## NOTES

D—Disclosure
P—Preliminary
R—Revised
n.a.—Not available
Net ton—2,000 pounds
Gross ton—2,240 pounds
( ) Indicates loss or negative number.
Rounded figures do not necessarily add to totals.

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

# SELECTED HIGHLIGHTS
# THE IRON AND STEEL INDUSTRY AT A GLANCE

The Selected Statistical Highlights present a ten-year trend from which comparisons of year-to-year changes may be made for those items of the industry that are indicative of the operating level and the financial status of reporting companies. In the use of the highlights, it should be recognized that there may be a difference in the universe of reporting companies for the major items in the statistical section. This is especially significant for the financial series as compared to other series; for example, the universe for financial data for 1989 and 1990 represents companies who in 1990 produced 71% of the reported raw steel production.

# SELECTED STATISTICAL HIGHLIGHTS

## Table 1A

### Shipments, Apparent Supply, Imports and Employment

(Thousands)

| | Steel Mill Products–Net Tons | | | | Imports as % of U.S. Apparent Steel Supply | | | | | Steel Employment (a) |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | Total Net Shipments | Less Exports | Plus Imports | U.S. Apparent Steel Supply | Total | Japan | EEC | Canada | Other | Average No. of Employees |
| 1990 | 84,981 | 4,303 | 17,169 | 97,847 | 17.5 | 3.2 | 5.6 | 3.0 | 5.7 | 164 |
| 1989 | 84,100 | 4,578 | 17,321 | 96,843 | 17.9 | 3.8 | 5.8 | 3.1 | 5.2 | 169 |
| 1988 | 83,840 | 2,069 | 20,891 | 102,662 | 20.3 | 4.2 | 6.1 | 3.1 | 6.9 | 169 |
| 1987 | 76,654 | 1,129 | 20,414 | 95,940 | 21.3 | 4.5 | 6.0 | 3.8 | 7.0 | 163 |
| 1986 | 70,263 | 929 | 20,692 | 90,026 | 23.0 | 4.9 | 7.3 | 3.6 | 7.2 | 175 |
| 1985 | 73,043 | 932 | 24,256 | 96,367 | 25.2 | 6.2 | 7.2 | 3.0 | 8.8 | 208 |
| 1984 | 73,739 | 980 | 26,163 | 98,922 | 26.4 | 6.7 | 6.4 | 3.2 | 10.1 | 236 |
| 1983 | 67,584 | 1,199 | 17,070 | 83,455 | 20.5 | 5.1 | 4.9 | 2.9 | 7.6 | 243 |
| 1982 | 61,567 | 1,842 | 16,663 | 76,388 | 21.8 | 6.8 | 7.3 | 2.4 | 5.3 | 289 |
| 1981 | 88,450 | 2,904 | 19,898 | 105,444 | 18.9 | 5.9 | 6.1 | 2.7 | 4.2 | 391 |
| Details on Page: | 24 | 34 | 44 | ... | 47 | 47 | 47 | 47 | 47 | 15 |

(a) Covering only those employees engaged in the production and sale of iron and steel products and excludes mining and quarrying operations, transportation, warehousing, fabrication and other non-steel producing activities.

## Table 1B

### Raw Steel Data

(Thousands of net tons)

| | | United States | | | | Percent of U.S. Production | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | By Type of Furnace | | | By Type Cast | |
| Year | World Production | Production | % of World | Capability | % of Capability | OH | BOP | Elec. | Ingots | Continuous |
| 1990 | 849,618 | 98,906 | 11.6 | 116,700 | 84.7 | 3.5 | 59.1 | 37.4 | 32.5 | 67.4 |
| 1989 | 865,310 | 97,943 | 11.3 | 115,900 | 84.5 | 4.5 | 59.6 | 35.9 | 35.1 | 64.8 |
| 1988 | 858,932 | 99,924 | 11.6 | 112,000 | 89.2 | 5.1 | 58.0 | 36.9 | 38.6 | 61.3 |
| 1987 | 811,367 | 89,151 | 11.0 | 112,200 | 79.5 | 3.0 | 58.9 | 38.1 | 40.1 | 59.8 |
| 1986 | 786,625 | 81,606 | 10.3 | 127,000 | 63.8 | 4.1 | 58.7 | 37.2 | 44.7 | 55.2 |
| 1985 | 792,945 | 88,259 | 11.1 | 133,600 | 66.1 | 7.3 | 58.8 | 33.9 | 55.5 | 44.4 |
| 1984 | 782,590 | 92,528 | 11.8 | 135,300 | 68.4 | 9.0 | 57.1 | 33.9 | 60.3 | 39.6 |
| 1983 | 730,930 | 84,615 | 11.6 | 150,600 | 56.2 | 7.0 | 61.5 | 31.5 | 67.8 | 32.1 |
| 1982 | 710,738 | 74,577 | 10.5 | 154,000 | 48.4 | 8.2 | 60.7 | 31.1 | 70.9 | 29.0 |
| 1981 | 779,399 | 120,828 | 15.5 | 154,300 | 78.3 | 11.1 | 60.6 | 28.3 | 78.2 | 21.6 |
| Details on Page: | 96 | 64 | 96 | ... | 67 | 64 | 64 | 64 | 65 | 65 |

## SELECTED FINANCIAL HIGHLIGHTS

# Table 1C

## Income Data

(Millions of Dollars)

| | Steel Segment Results | | |
|---|---|---|---|
| | | Net Income | |
| Year | Net Sales | Amount | % of Net Sales |
| 1990 | $29,425 | ($220) | -0.7 |
| 1989r | 31,525 | 1,597 | 5.0 |
| 1988 | 32,466 | (567) | -1.7 |
| 1987 | 26,933 | 1,077 | 4.0 |
| 1986 | 24,875 | (4,150) | -16.7 |
| 1985 | 28,272 | (1,834) | -6.5 |
| 1984 | 30,005 | (31) | -0.1 |
| 1983 | 24,463 | (2,231) | -9.1 |
| 1982 | 28,239 | (3,384) | -12.0 |
| 1981 | 43,109 | 1,653 | 3.8 |
| Details on Page: | 10 | 10 | 10 |

# Table 1D

## Cash Flow Data

(Millions of Dollars)

| | Steel Segment Results | | | |
|---|---|---|---|---|
| | | Net Cash Provided (Used) from | | Inc.(Dec.) |
| Year | Capital Expend. | Operations | Financing | In Cash & Mkt.Secs. |
| 1990 | $2,500 | ($1,715) | $1,084 | ($631) |
| 1989r | 2,273 | 1,001 | (734) | 266 |
| 1988 | 1,839 | 726 | (397) | 328 |
| 1987 | 1,164 | 725 | (541) | 184 |
| 1986 | 862 | 1,439 | (1,239) | 200 |
| 1985 | 1,641 | (427) | 353 | (74) |
| 1984 | 1,203 | (428) | 296 | (132) |
| 1983 | 1,850 | (1,858) | 1,556 | (302) |
| 1982 | 2,258 | (1,990) | 1,766 | (224) |
| 1981 | 2,371 | 689 | (692) | (3) |
| Details on Page: | 12 | 12 | 12 | 12 |

# FINANCIAL STATISTICS

Financial data for 1989 and 1990 includes companies which made up 71% of the reported total raw steel production of the entire industry in 1990. Other years are based on results of companies representing varying percentages of the entire industry.

The financial tables included are for the Steel Segments of the businesses only. These statements representing the steel industry are statistical only, since the allocation of some items on the balance sheet, such as long term debt, deferred taxes and equity between steel and non-steel operations, requires each participating company to exercise judgement based on its individual facts and circumstances.

# Table 2
## Income Statement
## Steel Segment
(Millions of Dollars)

| | 1990 | 1989r | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|
| **REVENUES:** | | | | | | | | | | |
| Sales (Net Billing Value of Products Shipped and Other Services) | $29,424.5 | $31,524.9 | $32,465.7 | $26,932.7 | $24,875.2 | $28,272.3 | $30,005.2 | $24,462.8 | $28,238.6 | $43,109.3 |
| Interest, Dividends & Other Income | 205.0 | 268.6 | 205.2 | 154.2 | 160.8 | 162.2 | 328.1 | 514.8 | 492.0 | 653.8 |
| Total Revenue | 29,629.5 | 31,793.5 | 32,670.9 | 27,086.9 | 25,036.0 | 28,434.4 | 30,333.3 | 24,977.6 | 28,730.6 | 43,763.1 |
| **COSTS:** | | | | | | | | | | |
| Employment Costs | 8,469.5 | 8,283.2 | 8,847.4 | 7,762.4 | 7,543.7 | 8,822.3 | 9,334.5 | 8,650.8 | 12,199.4 | 15,165.2 |
| Materials, Supplies, Freight and Other Services | 18,337.7 | 19,286.1 | 18,958.4 | 16,083.3 | 15,364.1 | 18,034.2 | 18,779.7 | 15,664.6 | 17,181.9 | 24,201.9 |
| Depreciation, Depletion & Amortization | 1,317.2 | 1,319.5 | 1,311.2 | 1,294.1 | 1,301.1 | 1,343.8 | 1,374.7 | 1,290.5 | 1,471.6 | 1,617.5 |
| Interest & Other Financial Costs | 503.7 | 533.3 | 462.4 | 538.5 | 637.0 | 713.4 | 774.3 | 616.5 | 600.0 | 487.4 |
| Taxes Other than Income | 359.9 | 371.5 | 372.0 | 375.9 | 378.7 | 362.7 | 359.9 | 371.2 | NA | NA |
| Loss or (Gain) on Sales of Assets | (36.2) | (3.5) | (46.5) | (1.4) | (45.6) | 0.3 | (309.9) | (20.0) | 2,021.4 | (132.0) |
| Loss or (Gain) Attributable to Shutdown or Restructuring of Facilities | 596.4 | 32.1 | 81.6 | 170.8 | 631.5 | 966.9 | 112.8 | 1,508.1 | --- | --- |
| Unusual Items | 357.9 | 88.1 | 1,390.2 | (197.3) | 3,813.5 | 77.2 | 77.8 | 24.5 | (24.8) | (28.5) |
| Taxes on Income | 162.7 | 353.1 | 312.4 | (87.9) | (448.3) | (35.4) | 21.0 | (720.4) | (1,335.1) | 798.2 |
| Total Costs | 30,068.8 | 30,263.4 | 31,689.1 | 25,938.5 | 29,175.8 | 30,285.4 | 30,524.8 | 27,385.8 | 32,114.4 | 42,109.7 |
| Extraordinary and Other Items Net of Taxes | 219.0 | 66.7 | (1,549.2) | (71.4) | (10.1) | 16.9 | 161.0 | 177.1 | NA | NA |
| **NET INCOME** | ($220.3) | $ 1,596.8 | ($567.4) | $ 1,077.0 | ($4,149.9) | ($1,834.0) | ($30.5) | ($2,231.1) | ($3,383.8) | $ 1,653.4 |
| Percent Return on Sales | (0.7) | 5.0 | (1.7) | 4.0 | (16.7) | (6.5) | (0.1) | (9.1) | (12.0) | 3.8 |

Totals do not necessarily add due to rounding

MEMO: In 1990 reporting companies represent 70.2 million net tons of raw steel production and 55.9 million net tons of shipments of finished steel products.

# Table 3

## Balance Sheet
## Steel Segment
(Millions of Dollars)

| ASSETS | 1990 | 1989r | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|
| Current Assets: | | | | | | | | | | |
| Cash & Marketable Securities | $ 589.5 | $ 1,220.3 | $ 948.4 | $ 614.7 | $ 423.1 | $ 237.5 | $ 402.1 | $ 606.9 | $ 952.5 | $ 1,157.7 |
| Receivables, Less Allowances | 3,450.7 | 3,579.0 | 4,266.7 | 3,796.4 | 2,863.7 | 3,117.5 | 3,213.0 | 3,408.3 | 2,727.5 | 4,385.5 |
| Inventories | 4,480.3 | 4,005.2 | 3,843.4 | 3,351.5 | 3,045.8 | 3,546.2 | 4,216.5 | 3,320.7 | 4,034.4 | 5,379.4 |
| Other Current Assets | 134.3 | 108.6 | 112.0 | 179.1 | 129.7 | 116.8 | 198.8 | 204.7 | 226.5 | 193.7 |
| Total Current Assets | 8,654.8 | 8,913.1 | 9,170.4 | 7,941.6 | 6,462.3 | 7,018.0 | 8,030.4 | 7,540.6 | 7,940.9 | 11,116.3 |
| Long-Term Receivables & Other Investments | 1,147.5 | 932.9 | 741.8 | 838.9 | 755.8 | 903.1 | 1,047.5 | 1,700.0 | N.A. | N.A. |
| Fixed Assets: | | | | | | | | | | |
| Property, Plant & Equipment | 32,538.2 | 31,386.5 | 32,089.3 | 31,710.1 | 32,614.0 | 33,927.7 | 35,198.4 | 34,283.2 | 38,518.5 | 38,971.2 |
| Less-Depreciation, Depletion & Amortization | 17,629.9 | 17,417.0 | 18,621.8 | 18,620.0 | 19,185.7 | 18,236.3 | 18,589.0 | 18,401.8 | 20,681.5 | 20,768.4 |
| Net Fixed Assets | 14,908.3 | 13,969.5 | 13,467.5 | 13,090.1 | 13,428.3 | 15,691.4 | 16,609.4 | 15,881.4 | 17,837.0 | 18,202.8 |
| Other Assets | 909.1 | 875.9 | 806.9 | 327.2 | 309.9 | 337.6 | 499.6 | 349.3 | 2,101.3 | 2,376.7 |
| Total Assets | $25,619.7 | $24,691.4 | $24,186.6 | $22,197.8 | $20,956.3 | $23,950.1 | $26,186.9 | $25,471.3 | $27,879.2 | $31,695.8 |
| **LIABILITIES & STOCKHOLDERS' EQUITY** | | | | | | | | | | |
| Current Liabilities: | | | | | | | | | | |
| Accounts Payable | $ 2,611.9 | $ 2,424.1 | $ 2,426.8 | $ 2,339.0 | $ 1,658.1 | $ 2,158.1 | $ 2,261.4 | $ 2,287.6 | $ N.A. | $ N.A. |
| Accrued taxes incl. Federal Income Taxes | 479.8 | 522.2 | 525.9 | 566.2 | 403.6 | 508.6 | 485.1 | 385.5 | N.A. | N.A. |
| Long-Term Debt Maturing Within One Year | 409.5 | 319.5 | 279.9 | 296.3 | 300.1 | 294.4 | 571.4 | 255.9 | 197.8 | 266.5 |
| All Other Current Liabilities | 2,362.4 | 2,262.5 | 2,210.0 | 2,028.8 | 1,674.8 | 2,564.7 | 2,392.0 | 2,726.8 | 5,136.4 | 6,418.7 |
| Total Current Liabilities | 5,863.6 | 5,528.3 | 5,442.7 | 5,230.4 | 4,036.6 | 5,525.8 | 5,709.9 | 5,655.8 | 5,334.2 | 6,685.2 |
| Long-Term Debt Less Amount Maturing Within One Year | 5,217.6 | 4,358.3 | 5,148.4 | 5,388.4 | 5,409.4 | 6,874.6 | 6,380.0 | 7,208.2 | 7,817.9 | 6,163.7 |
| Deferred Income Tax | 299.0 | 294.8 | 268.7 | 205.9 | 177.4 | 188.2 | 277.1 | 264.2 | 750.2 | 1,696.4 |
| Liabilities Attributable to Shutdown or Restructuring of Facilities | 1,925.7 | 1,588.0 | 845.1 | 1,282.2 | 1,488.9 | 2,089.3 | 2,019.7 | 2,085.7 | N.A. | N.A. |
| All Other Long-Term Liabilities & Reserves | 9,970.3 | 10,692.2 | 10,160.2 | 6,981.3 | 7,185.9 | 2,087.2 | 2,138.2 | 1,809.8 | 2,697.3 | 1,759.0 |
| Minority Interest in Companies not Wholly Owned. | 21.9 | 22.0 | 19.9 | 18.3 | 14.8 | 17.4 | 22.8 | 18.2 | 19.5 | 30.9 |
| Total Liabilities | 23,298.1 | 22,483.6 | 21,885.0 | 19,106.4 | 18,313.0 | 16,782.5 | 16,547.7 | 17,041.9 | 16,619.1 | 16,335.2 |
| Redeemable Preferred Stock (RPS) | 291.2 | 143.8 | 64.8 | 127.6 | 226.6 | 226.5 | 228.2 | 228.3 | --- | --- |
| Stockholders' Equity | 2,030.4 | 2,064.0 | 2,236.9 | 2,963.8 | 2,416.7 | 6,941.1 | 9,411.0 | 8,201.1 | 11,260.1 | 15,360.6 |
| Total Liabilities, RPS & Stockholders' Equity | $25,619.7 | $24,691.4 | $24,186.6 | $22,197.8 | $20,956.3 | $23,950.1 | $26,186.9 | $25,471.3 | $27,879.2 | $31,695.8 |
| Memo: LIFO Inventory Reserves Included Above | $ 1,651.4 | $ 1,800.6 | $ 2,029.9 | $ 1,866.1 | $ 2,195.2 | $ 3,026.8 | $ 3,497.6 | $ 2,750.6 | $ 5,101.7 | $ 6,067.1 |

# Table 4
## Cash Flow Statement
## Steel Segment
(Millions of Dollars)

| | 1990 | 1989r | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|
| Cash Provided From Operations: | | | | | | | | | | |
| Net Income | ($220.3) | $ 1,596.8 | ($567.4) | $ 1,077.0 | ($4,131.9) | ($1,803.0) | ($92.7) | ($2,235.0) | ($3,384.4) | $ 1,653.8 |
| Depreciation | 1,317.2 | 1,319.5 | 1,310.6 | 1,295.3 | 1,301.1 | 1,343.7 | 1,373.0 | 1,292.1 | 1,481.2 | 1,636.1 |
| Deferred Income Taxes | 17.5 | 29.0 | 39.1 | 25.5 | (485.5) | (55.4) | 42.8 | (722.9) | (854.4) | 762.9 |
| Other Non Cash P&L Items | 101.9 | 107.5 | 2,978.2 | 24.6 | 4,622.6 | 1,017.0 | 156.2 | 1,366.2 | 2,036.6 | (39.8) |
| Total from Earnings | 1,216.3 | 3,052.8 | 3,760.5 | 2,373.3 | 1,306.3 | 502.2 | 1,479.3 | (299.6) | (721.0) | 4,013.0 |
| Changes in Working Capital | (222.5) | 462.4 | (326.5) | (359.0) | 965.8 | 527.1 | (829.0) | (94.1) | 1,677.3 | (463.6) |
| Cash Provided from Operations | 993.8 | 3,515.2 | 3,434.0 | 2,014.2 | 2,272.0 | 1,029.4 | 650.3 | (393.7) | 956.3 | 3,549.4 |
| Cash Provided (Used) for Non Operating Units | (46.5) | (16.1) | (7.3) | 8.4 | (40.6) | (115.3) | (145.6) | (160.6) | 63.3 | (161.2) |
| Cash (Used) for Dividends | (171.6) | (260.2) | (218.5) | (189.9) | (120.5) | (138.7) | (201.5) | (203.3) | (413.8) | (774.9) |
| Long-Term Investments: | | | | | | | | | | |
| Additions to Plant & Equipment | (2,499.5) | (2,272.6) | (1,838.5) | (1,163.9) | (862.0) | (1,640.9) | (1,203.1) | (1,850.2) | (2,258.2) | (2,370.6) |
| Disposals of Plant & Equipment | 172.1 | 278.6 | 184.0 | 81.7 | 505.5 | 293.1 | 210.7 | 48.5 | 602.8 | 166.2 |
| Other Provided (Used) | (163.2) | (244.3) | (828.2) | (25.9) | (315.2) | 145.6 | 260.9 | 701.0 | (940.6) | 279.6 |
| Cash (Used) from Operations | (2,490.6) | (2,238.3) | (2,482.6) | (1,108.0) | (671.7) | (1,202.3) | (731.5) | (1,100.7) | (2,596.0) | (1,924.8) |
| Net Cash Provided (Used) from Operations | (1,714.9) | 1,000.6 | 725.6 | 724.7 | 1,439.2 | (426.9) | (428.3) | (1,858.3) | (1,990.2) | 688.5 |
| Cash Provided From (Used for) Financing | | | | | | | | | | |
| Net Additions/Reductions In: | | | | | | | | | | |
| Transfers (to) from Corporate | 770.8 | (97.6) | (252.6) | (322.7) | (865.9) | (299.8) | (435.4) | 46.5 | (242.6) | (186.4) |
| Long Term Debt | 50.8 | (588.4) | (390.8) | (351.8) | (88.5) | 504.4 | 62.4 | 524.1 | 1,814.7 | (638.4) |
| Short Term Debt | 173.7 | (38.6) | 73.8 | (36.9) | (384.6) | (15.0) | 524.7 | 51.3 | 106.7 | 121.3 |
| Stock | 88.8 | (10.0) | 172.4 | 170.3 | 99.9 | 162.9 | 144.4 | 934.1 | 87.2 | 11.5 |
| Net Cash Provided from (used for) Financing | 1,084.1 | (734.6) | (397.2) | (541.2) | (1,239.1) | 352.5 | 296.1 | 1,556.0 | 1,766.0 | (692.0) |
| Increase (Decrease) in Cash & Marketable Securities | ($630.8) | $ 266.0 | $ 328.4 | $ 183.6 | $ 200.1 | ($74.4) | ($132.2) | ($302.3) | ($224.2) | ($3.5) |

## EMPLOYMENT AND WAGE DATA

The data on number of employees, hours worked, employment cost, payroll cost per hour and employment cost per hour as shown on tables 5 and 6 cover those employees engaged in the operation of coke ovens, blast furnaces, steel-making furnaces and finishing mills, etc. and the sale of products thereof as reported by companies comprising about 76% of 1990 total raw steel production.

Indexes on output per man-hour in the iron and steel industry are those compiled by the United States Department of Labor, Bureau of Labor Statistics.

# Table 5

## Total Employment Cost per Hour Worked–Wage Employees

(Covering those employees engaged in the production and sale of iron and steel products)

| Year | Pay for Hours Worked | | | | | | Memo | Other Payroll Costs | | | | | | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Straight Time | | | | | Subtotal | | | | | | | | |
| | Regular | Shift Differential | Sunday Premium | Overtime Premium | Premium For Work On Holidays | Pay for Hours Worked | Average Hourly Earnings In Steel (BLS) | Pay for Holidays Not Worked | Vacation Pay | All Other** | Total Payroll Cost Per Hour | Employee* Benefits Cost Per Hour | Total Employment Cost Per Hour | |
| 1990 | $13.890 | $0.161 | $0.439 | $0.974 | $0.264 | $15.728 | $15.59 | $0.282 | $1.277 | $0.695 | $17.982 | $7.642 | $25.624 | 1990 |
| 1989 | 13.369 | 0.156 | 0.319 | 0.910 | 0.247 | 15.001 | 15.00 | 0.251 | 1.142 | 1.296 | 17.690 | 6.929 | 24.620 | 1989 |
| 1988 | 13.076 | 0.151 | 0.320 | 0.915 | 0.237 | 14.699 | 14.72 | 0.231 | 1.042 | 1.851 | 17.823 | 6.825 | 24.647 | 1988 |
| 1987 | 13.034 | 0.151 | 0.302 | 0.800 | 0.242 | 14.529 | 14.54 | 0.255 | 1.038 | 0.399 | 16.221 | 7.486 | 23.707 | 1987 |
| 1986 | 13.224 | 0.157 | 0.294 | 0.671 | 0.284 | 14.630 | 14.53 | 0.301 | 1.109 | 0.179 | 16.219 | 7.023 | 23.242 | 1986 |
| 1985 | 13.023 | 0.157 | 0.244 | 0.574 | 0.274 | 14.272 | 13.98 | 0.339 | 1.269 | 0.117 | 15.997 | 6.815 | 22.812 | 1985 |
| 1984 | 12.570 | 0.158 | 0.234 | 0.514 | 0.255 | 13.731 | 13.53 | 0.312 | 1.135 | 0.165 | 15.343 | 5.955 | 21.298 | 1984 |
| 1983 | 12.548 | 0.156 | 0.255 | 0.409 | 0.259 | 13.627 | 13.40 | 0.366 | 0.968 | 0.133 | 15.094 | 7.119 | 22.213 | 1983 |
| 1982 | 13.012 | 0.157 | 0.375 | 0.276 | 0.235 | 14.055 | 13.96 | 0.499 | 2.165 | 0.089 | 16.808 | 6.973 | 23.781 | 1982 |
| 1981 | 12.092 | 0.171 | 0.434 | 0.432 | 0.298 | 13.427 | 13.11 | 0.350 | 1.601 | 0.071 | 15.449 | 4.709 | 20.158 | 1981 |

*Includes cost for retired employees as well as active.

**Includes profit sharing, gain sharing, stock plans, etc.

# Table 6

## Number of Employees, Hours Worked and Employment Cost

(Covering those employees engaged in the production and sale of iron and steel products)

| | Employees Receiving Wages | | | | | Employees Receiving Salaries | | | All Employees Receiving Wages and Salaries | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | Average Number of Em-ployees | Total Hours Worked (000) | Avg Hrs. Worked Per Week Per Em-ployee | Em-ployment Cost (millions) | Total Em-ployment Cost Per Hour | Average Number of Em-ployees | Total Hours Worked (000) | Em-ployment Cost (millions) | Average Number of Em-ployees | Total Hours Worked (000) | Avg Hrs. Worked Per Week Per Em-loyee | Em-ployment Cost (millions) | Total Employment Cost Per Hour | Year |
| 1990 | 119,683 | 256,426 | 41.1 | $6,570.7 | 25.624 | 44,280 | 94,059 | $2,660.5 | 163,963 | 350,486 | 41.0 | $9,231.1 | $26.338 | 1990 |
| 1989 | 124,218 | 265,820 | 41.0 | 6,544.4 | 24.620 | 44,635 | 94,599 | 2,592.5 | 168,853 | 360,420 | 40.9 | 9,136.9 | 25.351 | 1989 |
| 1988 | 125,289 | 271,053 | 41.4 | 6,680.7 | 24.647 | 43,608 | 92,344 | 2,514.5 | 168,898 | 363,397 | 41.2 | 9,195.2 | 25.304 | 1988 |
| 1987 | 120,865 | 261,631 | 41.5 | 6,202.5 | 23.707 | 42,473 | 92,509 | 2,378.0 | 163,338 | 354,140 | 41.6 | 8,580.4 | 24.229 | 1987 |
| 1986 | 128,418 | 259,173 | 38.7 | 6,023.8 | 23.242 | 46,365 | 96,719 | 2,362.9 | 174,783 | 355,892 | 39.1 | 8,386.7 | 23.565 | 1986 |
| 1985 | 150,906 | 300,456 | 38.2 | 6,854.1 | 22.812 | 57,262 | 118,292 | 2,887.0 | 208,168 | 418,747 | 38.6 | 9,741.1 | 23.262 | 1985 |
| 1984 | 170,694 | 339,228 | 38.0 | 7,224.9 | 21.298 | 65,308 | 134,838 | 3,119.5 | 236,002 | 474,067 | 38.4 | 10,344.4 | 21.821 | 1984 |
| 1983 | 168,852 | 324,997 | 36.9 | 7,219.1 | 22.213 | 73,893 | 149,814 | 3,459.4 | 242,745 | 474,811 | 37.5 | 10,678.5 | 22.490 | 1983 |
| 1982 | 198,477 | 345,093 | 33.3 | 8,206.6 | 23.781 | 90,960 | 180,535 | 4,197.9 | 289,437 | 525,628 | 34.8 | 12,404.5 | 23.599 | 1982 |
| 1981 | 286,219 | 543,324 | 36.4 | 10,952.4 | 20.158 | 104,695 | 209,373 | 4,626.7 | 390,914 | 752,697 | 36.9 | 15,579.1 | 20.698 | 1981 |

Memo:Net shipments (thousand net tons) for companies reporting employment data are as follows:

| Year | (000 NT) | Year | (000 NT) |
|---|---|---|---|
| 1990 | 62,123 | 1985 | 60,482 |
| 1989 | 63,192 | 1984 | 62,158 |
| 1988 | 63,807 | 1983 | 57,139 |
| 1987 | 59,071 | 1982 | 51,825 |
| 1986 | 54,352 | 1981 | 78,190 |

# Table 7

## BLS Index of Output per Man-hour in the Steel Industry

(All Employees)

| Year | 1982=100 |
|---|---|
| 1990 | 190.1 |
| 1989 | 180.3 |
| 1988 | 184.6 |
| 1987 | 167.6 |
| 1986 | 156.1 |
| 1985 | 153.5 |
| 1984 | 144.5 |
| 1983 | 128.6 |
| 1982 | 100.0 |
| 1981 | 123.2 |
| 1980 | 113.2 |
| Average Annual Increase* 1980–1990 | 6.1% |

*Based on least squares method.

Source: United States Department of Labor, Bureau of Labor Statistics

NOTE: Although the output per man-hour data relate output to one input-labor time-they do not measure the specific contribution of labor, of capital, or of any other factor to production. In short, they do not reflect solely changes in the productiveness of labor. Rather, they reflect the joint effect of a number of interrelated influences such as changes in technology, capital investment per worker, utilization of capacity, layout and flow of material, skill of the work force, managerial skill, and labor-management relations.

# Table 8

## Occupational Injury/Illness

(Covering only those employees who were engaged in the production of iron and steel products as reported by companies comprising 71% of total 1990 raw steel production)

| | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| 1. Aggregate number of man-hours (millions) | 321 | 337 | 346 | 330 | 330 |
| 2. OSHA recordable injuries/illnesses: | | | | | |
| a. Fatalities | 12 | 15 | 17 | 16 | 22 |
| b. Lost workday cases | 7,204 | 8,000 | 8,249 | 7,175 | 4,293 |
| c. Other medical treatment cases | 14,014 | 14,683 | 16,646 | 15,950 | 9,240 |
| d. Total (2a through 2c) | 21,230 | 22,698 | 24,912 | 23,141 | 13,555 |
| 3. Frequency rate (number of injuries/illnesses per 200,000 man-hours worked) | 13.217 | 13.489 | 14.410 | 14.029 | 8.217 |
| 4. OSHA workdays lost (thousands) | 202 | 224 | 224 | 200 | 147 |
| 5. Severity rate (days lost per 200,000 man-hours worked) | 159 | 133 | 130 | 121 | 89 |

NOTE: Recordable injuries are reported as specified by the Bureau of Labor Statistics, U.S. Department of Labor pursuant to Section 24(a) of the Occupational Safety and Health Act of 1970.

The U.S. Department of Labor, Bureau of Labor Statistics issued revised record keeping guidelines for Occupational Injury and Illness effective April 1986.

Beginning with 1987 reporting companies have issued their figures to reflect the new guidelines; therefore, results may not be comparable to past years.

# SHIPMENTS—STEEL PRODUCTS

Data in this section are expressed in terms of Gross Shipments and Net Shipments. Gross shipments represent the aggregate tonnage shipped by reporting companies including steel consumed by the companies in their own construction, maintenance, repair and operations, as well as in their own manufacture of fabricated products. Net shipments eliminate tonnage duplication by deducting from the gross total those shipments from one reporting company to another reporting company for conversion, further processing or resale.

# Table 9

## Shipments of Steel Mill Products–1990
## All Grades–(Carbon, Alloy and Stainless)

(Net Tons)

| Steel Mill Products | Total Gross Shipments | Less Shipments to Reporting Companies | Total Net Shipments | Percent of Total Net Shipments |
|---|---|---|---|---|
| Ingots and steel for castings | 485,473 | 141,846 | 343,627 | 0.4 |
| Blooms, slabs, billets | 2,598,247 | 954,756 | 1,643,491 | 1.9 |
| Wire rods | 4,334,937 | 9,197 | 4,325,740 | 5.1 |
| Total Semi–Finished | 7,418,657 | 1,105,799 | 6,312,858 | 7.4 |
| Structural shapes (3″ & over) | 5,669,972 | 20 | 5,669,952 | 6.7 |
| Steel piling | 422,869 | ... | 422,869 | 0.5 |
| Plates – Cut Lengths | 5,134,599 | 2,753 | 5,131,846 | 6.0 |
| Plates – In Coils | 3,328,663 | 515,885 | 2,812,778 | 3.3 |
| Total Shapes and Plates | 14,556,103 | 518,658 | 14,037,445 | 16.5 |
| Rails–Standard (over 60 lb) | 407,161 | ... | 407,161 | 0.5 |
| –All other | 12,251 | ... | 12,251 | 0.0 |
| Railroad accessories | 99,181 | ... | 99,181 | 0.1 |
| Total Rails and Accessories | 518,593 | ... | 518,593 | 0.6 |
| Bars–Hot rolled | 7,206,358 | 551,133 | 6,655,225 | 7.8 |
| –Bar–Size light shapes | 1,222,439 | ... | 1,222,439 | 1.4 |
| –Reinforcing | 5,305,008 | ... | 5,305,008 | 6.2 |
| –Cold finished | 1,487,686 | 1,232 | 1,486,454 | 1.7 |
| Total Bars | 15,221,491 | 552,365 | 14,669,126 | 17.3 |
| Tool Steel | 58,729 | 1,024 | 57,705 | 0.1 |

# Table 9 (continued)

## Shipments of Steel Mill Products–1990
## All Grades–(Carbon, Alloy and Stainless)

(Net Tons)

| Steel Mill Products | Total Gross Shipments | Less Shipments to Reporting Companies | Total Net Shipments | Percent of Total Net Shipments |
|---|---|---|---|---|
| Pipe and tubing–Standard Pipe | 1,194,475 | 9,489 | 1,184,986 | 1.4 |
| –Oil country goods | 1,218,930 | 385 | 1,218,545 | 1.4 |
| –Line | 1,127,455 | 4,223 | 1,123,232 | 1.3 |
| –Mechanical | 865,793 | 3,020 | 862,773 | 1.0 |
| –Pressure | 48,537 | ... | 48,537 | 0.1 |
| –Structural | 137,111 | ... | 137,111 | 0.2 |
| –Pipe for piling | 35,013 | ... | 35,013 | 0.0 |
| –Stainless | 41,377 | 4 | 41,373 | 0.0 |
| Total Pipe and Tubing | 4,668,691 | 17,121 | 4,651,570 | 5.5 |
| Wire–Drawn and/or Rolled | 918,325 | 375 | 917,950 | 1.1 |
| Black plate | 289,779 | 19,433 | 270,346 | 0.3 |
| Tin plate | 2,773,487 | ... | 2,773,487 | 3.3 |
| Tin free steel | 909,075 | ... | 909,075 | 1.1 |
| Tin coated sheets | 79,055 | ... | 79,055 | 0.1 |
| Total Tin Mill Products | 4,051,396 | 19,433 | 4,031,963 | 4.7 |
| Sheets–Hot rolled | 14,350,885 | 962,905 | 13,387,980 | 15.8 |
| –Cold rolled | 13,393,882 | 195,278 | 13,198,604 | 15.5 |
| Sheets & Strip–Galvanized–Hot dipped | 7,881,043 | 3,414 | 7,877,629 | 9.3 |
| –Electrolytic | 2,071,645 | 5,218 | 2,066,427 | 2.4 |
| –All other metallic coated | 1,258,863 | 337 | 1,258,526 | 1.5 |
| –Electrical | 489,673 | 3,558 | 486,115 | 0.6 |
| Strip–Hot rolled | 696,724 | 4,251 | 692,473 | 0.8 |
| –Cold rolled | 821,294 | 5,276 | 816,018 | 1.0 |
| Total Sheets and Strip | 40,964,009 | 1,180,237 | 39,783,772 | 46.8 |
| Total Net Shipments | 88,375,994 | 3,395,012 | 84,980,982 | 100.0 |

# Table 10

## Shipments of Steel Mill Products–1990
## By Grades–(Carbon, Alloy and Stainless)

(Net Tons)

| Steel Mill Products | Carbon | % | Alloy | % | Stainless | % | Total | % |
|---|---|---|---|---|---|---|---|---|
| Ingots and steel for castings | 146,062 | 0.2 | 185,145 | 4.0 | 12,420 | 0.8 | 343,627 | 0.4 |
| Blooms, slabs, billets | 1,195,169 | 1.5 | 347,212 | 7.5 | 101,110 | 6.7 | 1,643,491 | 1.9 |
| Wire rods | 4,222,450 | 5.4 | 68,703 | 1.5 | 34,587 | 2.3 | 4,325,740 | 5.1 |
| Total Semi–Finished | 5,563,681 | 7.1 | 601,060 | 12.9 | 148,117 | 9.8 | 6,312,858 | 7.4 |
| Structural shapes (3″ & over) | 5,637,512 | 7.2 | 32,440 | 0.7 | – | – | 5,669,952 | 6.7 |
| Steel piling | 422,869 | 0.5 | – | – | – | – | 422,869 | 0.5 |
| Plates – Cut Lengths | 4,604,048 | 5.8 | 412,650 | 8.9 | 115,148 | 7.6 | 5,131,846 | 6.0 |
| Plates – In Coils | 2,715,886 | 3.4 | 5,975 | 0.1 | 90,917 | 6.0 | 2,812,778 | 3.3 |
| Total Shapes and Plates | 13,380,315 | 17.0 | 451,065 | 9.7 | 206,065 | 13.6 | 14,037,445 | 16.5 |
| Rails–Standard (over 60 lb) | 407,161 | 0.5 | – | – | – | – | 407,161 | 0.5 |
| –All other | 12,251 | 0.0 | – | – | – | – | 12,251 | 0.0 |
| Railroad accessories | 99,181 | 0.1 | – | – | – | – | 99,181 | 0.1 |
| Total Rails and Accessories | 518,593 | 0.7 | – | – | – | – | 518,593 | 0.6 |
| Bars–Hot rolled | 4,653,858 | 5.9 | 1,962,908 | 42.2 | 38,459 | 2.5 | 6,655,225 | 7.8 |
| –Bar–Size light shapes | 1,222,439 | 1.6 | – | – | – | – | 1,222,439 | 1.4 |
| –Reinforcing | 5,305,008 | 6.7 | – | – | – | – | 5,305,008 | 6.2 |
| –Cold finished | 1,162,514 | 1.5 | 224,682 | 4.8 | 99,258 | 6.5 | 1,486,454 | 1.7 |
| Total Bars | 12,343,819 | 15.7 | 2,187,590 | 47.1 | 137,717 | 9.1 | 14,669,126 | 17.3 |
| Tool Steel | – | – | 57,705 | 1.2 | – | – | 57,705 | 0.1 |

# Table 10 (continued)

## Shipments of Steel Mill Products–1990
## By Grades–(Carbon, Alloy and Stainless)

(Net Tons)

| Steel Mill Products | Carbon | % | Alloy | % | Stainless | % | Total | % |
|---|---|---|---|---|---|---|---|---|
| Pipe and tubing–Standard Pipe | 1,184,986 | 1.5 | – | – | – | – | 1,184,986 | 1.4 |
| –Oil country goods | 921,879 | 1.2 | 296,666 | 6.4 | – | – | 1,218,545 | 1.4 |
| –Line | 1,123,232 | 1.4 | – | – | – | – | 1,123,232 | 1.3 |
| –Mechanical | 571,174 | 0.7 | 291,599 | 6.3 | – | – | 862,773 | 1.0 |
| –Pressure | 37,127 | 0.0 | 11,410 | 0.2 | – | – | 48,537 | 0.1 |
| –Structural | 137,111 | 0.2 | – | – | – | – | 137,111 | 0.2 |
| –Pipe for piling | 35,013 | 0.0 | – | – | – | – | 35,013 | 0.0 |
| –Stainless | – | – | – | – | 41,373 | 2.7 | 41,373 | 0.0 |
| Total Pipe and Tubing | 4,010,522 | 5.1 | 599,675 | 12.9 | 41,373 | 2.7 | 4,651,570 | 5.5 |
| Wire–Drawn and/or Rolled | 868,749 | 1.1 | 26,001 | 0.6 | 23,200 | 1.5 | 917,950 | 1.1 |
| Black plate | 270,346 | 0.3 | – | – | – | – | 270,346 | 0.3 |
| Tin plate | 2,773,487 | 3.5 | – | – | – | – | 2,773,487 | 3.3 |
| Tin free steel | 909,075 | 1.2 | – | – | – | – | 909,075 | 1.1 |
| Tin coated sheets | 79,055 | 0.1 | – | – | – | – | 79,055 | 0.1 |
| Total Tin Mill Products | 4,031,963 | 5.1 | – | – | – | – | 4,031,963 | 4.7 |
| Sheets–Hot rolled | 13,218,507 | 16.8 | 124,502 | 2.7 | 44,971 | 3.0 | 13,387,980 | 15.8 |
| –Cold rolled | 12,476,153 | 15.8 | 10,201 | 0.2 | 712,250 | 47.0 | 13,198,604 | 15.5 |
| Sheets & Strip–Galvanized–Hot dipped | 7,877,629 | 10.0 | – | – | – | – | 7,877,629 | 9.3 |
| –Electrolytic | 2,066,427 | 2.6 | – | – | – | – | 2,066,427 | 2.4 |
| –All other metallic coated | 1,258,526 | 1.6 | – | – | – | – | 1,258,526 | 1.5 |
| –Electrical | 48 | 0.0 | 486,067 | 10.5 | – | – | 486,115 | 0.6 |
| Strip–Hot rolled | 616,910 | 0.8 | 69,391 | 1.5 | 6,172 | 0.4 | 692,473 | 0.8 |
| –Cold rolled | 586,247 | 0.7 | 33,551 | 0.7 | 196,220 | 12.9 | 816,018 | 1.0 |
| Total Sheets and Strip | 39,100,447 | 48.3 | 723,712 | 15.6 | 959,613 | 63.3 | 39,783,772 | 46.8 |
| Total Net Shipments | 78,818,089 | 100.0 | 4,646,808 | 100.0 | 1,516,085 | 100.0 | 84,980,982 | 100.0 |
| Shipments to reporting companies | 3,088,176 | – | 156,439 | – | 150,397 | – | 3,395,012 | – |
| Total Gross Shipments | 81,906,265 | – | 4,803,247 | – | 1,666,482 | – | 88,375,994 | – |

# Table 11

## Net Shipments of Steel Mill Products–All Grades

(Thousands of net tons)

| Steel Products | 1990 | | 1989 | | 1988 | | 1987 | | 1986 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Ingots and steel for castings | 344 | 0.4 | 352 | 0.4 | 385 | 0.5 | 381 | 0.5 | 244 | 0.3 |
| Blooms, slabs, billets | 1,643 | 1.9 | 1,731 | 2.1 | 1,542 | 1.8 | 1,212 | 1.6 | 1,242 | 1.8 |
| Skelp | * | ... | * | ... | * | ... | 22 | ... | 5 | ... |
| Wire Rods | 4,326 | 5.1 | 4,153 | 4.9 | 4,048 | 4.8 | 3,840 | 5.0 | 3,464 | 4.9 |
| Structural shapes (3" & over) | 5,670 | 6.7 | 4,987 | 5.9 | 4,860 | 5.8 | 4,839 | 6.3 | 4,233 | 6.0 |
| Steel piling | 423 | 0.5 | 368 | 0.4 | 349 | 0.4 | 280 | 0.4 | 295 | 0.4 |
| Plates Cut Lengths | 5,132 | 6.0 | 5,087 | 6.0 | 5,044 | 6.0 | 4,048 | 5.3 | 3,565 | 5.1 |
| Plates In Coils | 2,813 | 3.3 | 2,297 | 2.7 | 2,284 | 2.7 | ** | ... | ** | ... |
| Rails-Standard (over 60 lb) | 407 | 0.5 | 458 | 0.5 | 460 | 0.5 | 351 | 0.5 | 444 | 0.6 |
| -All other | 12 | 0.0 | 9 | 0.0 | 37 | 0.0 | 15 | ... | 17 | ... |
| Railroad accessories | 99 | 0.1 | 95 | 0.1 | 118 | 0.1 | 62 | 0.1 | 101 | 0.1 |
| Wheels (rolled and forged) | * | ... | * | ... | * | ... | 58 | 0.1 | 50 | 0.1 |
| Axles | * | ... | * | ... | * | ... | 29 | ... | 28 | ... |
| Bars-Hot rolled | 6,655 | 7.8 | 6,301 | 7.5 | 6,460 | 7.7 | 6,048 | 7.9 | 5,648 | 8.0 |
| -Bar-Size light shapes | 1,222 | 1.4 | 1,316 | 1.6 | 1,373 | 1.6 | 1,190 | 1.6 | 911 | 1.3 |
| -Reinforcing | 5,305 | 6.2 | 5,015 | 6.0 | 5,091 | 6.1 | 4,918 | 6.4 | 4,299 | 6.1 |
| -Cold finished | 1,486 | 1.7 | 1,472 | 1.8 | 1,499 | 1.8 | 1,361 | 1.8 | 1,257 | 1.8 |
| Tool Steel | 58 | 0.1 | 67 | 0.1 | 64 | 0.1 | 58 | 0.1 | 56 | 0.1 |
| Pipe and tubing-Standard Pipe | 1,185 | 1.4 | 1,175 | 1.4 | 1,238 | 1.5 | 969 | 1.3 | 710 | 1.0 |
| -Oil country goods | 1,219 | 1.4 | 909 | 1.1 | 1,130 | 1.3 | 919 | 1.2 | 483 | 0.7 |
| -Line | 1,123 | 1.3 | 871 | 1.0 | 808 | 1.0 | 620 | 0.8 | 604 | 0.9 |
| -Mechanical | 863 | 1.0 | 806 | 1.0 | 901 | 1.1 | 767 | 1.0 | 748 | 1.1 |
| -Pressure | 49 | 0.1 | 49 | 0.0 | 59 | 0.1 | 72 | 0.1 | 72 | 0.1 |
| -Structural | 137 | 0.2 | 121 | 0.0 | 178 | 0.2 | 180 | 0.2 | 177 | 0.3 |
| -Pipe for piling | 35 | 0.0 | 32 | 0.0 | 74 | 0.1 | *** | ... | *** | ... |
| -Stainless | 41 | 0.0 | 48 | 0.1 | 55 | 0.1 | 42 | 0.1 | 42 | 0.1 |
| Wire-Drawn | 918 | 1.1 | 1,002 | 1.2 | 1,073 | 1.3 | 800 | 1.0 | 802 | 1.1 |
| -Nails and staples | * | ... | * | ... | * | ... | 218 | 0.3 | 205 | 0.3 |
| -Barbed and twisted | * | ... | * | ... | * | ... | 49 | 0.1 | 41 | 0.1 |
| -Woven wire fence | * | ... | * | ... | * | ... | 13 | ... | 11 | ... |
| -Bale ties and baling wire | * | ... | * | ... | * | ... | 25 | ... | 21 | ... |

*Effective 1/1/88 these products are no longer classified as "steel mill products." Consequently comparable shipment tonnage is now included in applicable semi-finished forms or drawn wire.

**Prior to 1988 included in sheets hot rolled.

***Prior to 1988 included in structural pipe & tubing

# Table 11 (continued)

## Net Shipments of Steel Mill Products–All Grades

(Thousands of net tons)

| Steel Products | 1990 | | 1989 | | 1988 | | 1987 | | 1986 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Black plate | 270 | 0.3 | 311 | 0.4 | 283 | 0.3 | 205 | 0.3 | 216 | 0.3 |
| Tin plate | 2,773 | 3.3 | 2,788 | 3.3 | 2,806 | 3.3 | 2,765 | 3.6 | 2,581 | 3.7 |
| Tin free steel | 909 | 1.1 | 934 | 1.1 | 899 | 1.1 | 939 | 1.2 | 935 | 1.3 |
| Tin coated sheets | 79 | 0.1 | 93 | 0.1 | 81 | 0.1 | 79 | 0.1 | 69 | 0.1 |
| Sheets-Hot rolled | 13,388 | 15.8 | 13,281 | 15.8 | 13,969 | 15.4 | 13,048 | 17.0 | 12,167 | 17.3 |
| -Cold rolled | 13,199 | 15.5 | 13,854 | 16.5 | 13,871 | 16.5 | 13,859 | 18.1 | 13,250 | 18.9 |
| Sheets & Strip-Galvanized-Hot dipped | 7,878 | 9.3 | 8,543 | 10.2 | 8,115 | 9.7 | 7,660 | 10.0 | 7,224 | 10.3 |
| -Electrolytic | 2,066 | 2.4 | 2,151 | 2.6 | 2,134 | 2.5 | 1,432 | 1.9 | 898 | 1.3 |
| -All other metallic coated | 1,259 | 1.5 | 1,377 | 1.6 | 1,262 | 1.5 | 1,228 | 1.6 | 1,177 | 1.7 |
| -Electrical | 486 | 0.6 | 484 | 0.6 | 524 | 0.6 | 465 | 0.6 | 416 | 0.6 |
| Strip-Hot rolled | 692 | 0.8 | 702 | 0.8 | 823 | 1.0 | 657 | 0.9 | 635 | 0.9 |
| -Cold rolled | 816 | 1.0 | 870 | 1.0 | 941 | 1.1 | 929 | 1.2 | 920 | 1.3 |
| Total Steel Mill Products | 84,981 | 100.0 | 84,100 | 100.0 | 83,840 | 100.0 | 76,652 | 100.0 | 70,263 | 100.0 |
| Carbon | 78,818 | 92.7 | 78,485 | 93.3 | 77,702 | 92.7 | 68,116 | 88.9 | 62,520 | 89 |
| Stainless | 1,516 | 1.8 | 1,472 | 1.8 | 1,586 | 1.9 | 1,418 | 1.8 | 1,187 | 1.7 |
| Alloy (other than stainless) | 4,647 | 5.5 | 4,143 | 4.9 | 4,552 | 5.4 | 7,120 | 9.3 | 6,556 | 9.3 |
| | Total Steel Mill Product Shipments by Months* | | | | | | | | | |
| January | 6,863 | | 7,278 | | 6,608 | | 5,665 | | 6,437 | |
| February | 6,502 | | 6,832 | | 6,848 | | 5,527 | | 5,799 | |
| March | 7,569 | | 7,824 | | 7,693 | | 6,234 | | 6,142 | |
| April | 7,023 | | 7,164 | | 7,082 | | 6,312 | | 6,283 | |
| May | 7,523 | | 7,446 | | 7,187 | | 6,247 | | 6,212 | |
| June | 7,493 | | 7,331 | | 7,422 | | 6,656 | | 6,007 | |
| July | 6,890 | | 6,387 | | 6,325 | | 6,295 | | 5,815 | |
| August | 7,366 | | 7,224 | | 7,035 | | 6,364 | | 5,364 | |
| September | 6,893 | | 6,779 | | 6,922 | | 6,726 | | 5,608 | |
| October | 7,643 | | 7,174 | | 6,912 | | 7,077 | | 5,923 | |
| November | 6,907 | | 6,652 | | 6,712 | | 6,606 | | 4,899 | |
| December | 6,187 | | 6,053 | | 6,738 | | 6,977 | | 5,199 | |
| Total* | 84,981 | | 84,100 | | 83,840 | | 76,654 | | 70,263 | |

*Totals include adjustments not shown in monthly figures

# Table 11 (continued)

## Net Shipments of Steel Mill Products–All Grades

(Thousands of net tons)

| Steel Products | 1985 | | 1984 | | 1983 | | 1982 | | 1981 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Ingots and steel for castings | 256 | 0.4 | 275 | 0.4 | 238 | 0.4 | 246 | 0.4 | 461 | 0.5 |
| Blooms, slabs, billets | 1,118 | 1.5 | 1,031 | 1.4 | 760 | 1.1 | 1,035 | 1.7 | 2,185 | 2.5 |
| Skelp | 9 | ... | 11 | ... | 5 | ... | 2 | ... | 18 | ... |
| Wire Rods | 2,962 | 4.0 | 3,090 | 4.2 | 2,857 | 4.2 | 2,411 | 3.9 | 3,040 | 3.4 |
| Structural shapes (3" & over) | 4,373 | 6.0 | 3,868 | 5.2 | 3,364 | 5.0 | 3,313 | 5.4 | 4,929 | 5.6 |
| Steel piling | 326 | 0.5 | 288 | 0.4 | 258 | 0.4 | 250 | 0.4 | 282 | 0.3 |
| Plates | 4,327 | 5.9 | 4,339 | 5.9 | 3,816 | 5.6 | 4,146 | 6.7 | 7,441 | 8.4 |
| Rails–Standard (over 60 lb) | 679 | 0.9 | 933 | 1.3 | 611 | 0.9 | 498 | 0.8 | 907 | 1.0 |
| –All other | 25 | ... | 32 | ... | 23 | ... | 19 | ... | 48 | 0.1 |
| Railroad accessories | 121 | 0.2 | 182 | 0.3 | 177 | 0.3 | 157 | 0.3 | 304 | 0.4 |
| Wheels (rolled and forged) | 68 | 0.1 | 59 | 0.1 | 52 | 0.1 | 72 | 0.1 | 110 | 0.1 |
| Axles | 33 | 0.1 | 33 | ... | 21 | ... | 36 | 0.1 | 100 | 0.1 |
| Bars–Hot rolled | 5,698 | 7.8 | 6,070 | 8.2 | 5,129 | 7.6 | 4,757 | 7.7 | 6,890 | 7.8 |
| –Bar–Size light shapes | 1,329 | 1.8 | 1,184 | 1.6 | 1,070 | 1.6 | 948 | 1.5 | 1,473 | 1.7 |
| –Reinforcing | 4,326 | 5.9 | 4,432 | 6.0 | 4,275 | 6.3 | 4,049 | 6.6 | 4,612 | 5.2 |
| –Cold finished | 1,255 | 1.7 | 1,484 | 2.0 | 1,179 | 1.7 | 1,015 | 1.7 | 1,631 | 1.8 |
| Tool Steel | 60 | 0.1 | 61 | 0.1 | 46 | 0.1 | 44 | 0.1 | 67 | 0.1 |
| Pipe and tubing–Standard Pipe | 855 | 1.1 | 743 | 1.0 | 812 | 1.2 | 962 | 1.5 | 1,858 | 2.1 |
| –Oil country goods | 1,299 | 1.8 | 1,406 | 1.9 | 678 | 1.0 | 1,759 | 2.9 | 4,241 | 4.8 |
| –Line | 775 | 1.1 | 775 | 1.0 | 623 | 0.9 | 1,093 | 1.8 | 2,047 | 2.3 |
| –Mechanical | 812 | 1.1 | 940 | 1.3 | 748 | 1.1 | 762 | 1.2 | 1,348 | 1.5 |
| –Pressure | 87 | 0.1 | 89 | 0.1 | 88 | 0.1 | 108 | 0.2 | 154 | 0.2 |
| –Structural | 219 | 0.3 | 270 | 0.4 | 238 | 0.4 | 301 | 0.5 | 598 | 0.7 |
| –Stainless | 49 | 0.1 | 52 | 0.1 | 57 | 0.1 | 41 | 0.1 | 39 | ... |
| Wire–Drawn | 874 | 1.2 | 963 | 1.3 | 1,010 | 1.5 | 1,003 | 1.6 | 1,440 | 1.6 |
| –Nails and staples | 170 | 0.2 | 147 | 0.2 | 163 | 0.2 | 123 | 0.2 | 150 | 0.2 |
| –Barbed and twisted | 38 | 0.1 | 52 | 0.1 | 98 | 0.1 | 65 | 0.1 | 81 | 0.1 |
| –Woven wire fence | 20 | ... | 26 | ... | 49 | 0.1 | 74 | 0.1 | 95 | 0.1 |
| –Bale ties and baling wire | 34 | 0.1 | 35 | 0.1 | 39 | 0.1 | 43 | 0.1 | 49 | 0.1 |

# Table 11 (continued)

## Net Shipments of Steel Mill Products–All Grades

(Thousands of net tons)

| Steel Products | 1985 | | 1984 | | 1983 | | 1982 | | 1981 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Black plate | 215 | 0.3 | 286 | 0.4 | 352 | 0.5 | 319 | 0.5 | 421 | 0.5 |
| Tin plate | 2,611 | 3.6 | 2,765 | 3.7 | 2,925 | 4.4 | 3,018 | 4.9 | 3,490 | 3.9 |
| Tin free steel | 889 | 1.2 | 945 | 1.3 | 962 | 1.4 | 918 | 1.5 | 948 | 1.1 |
| Tin coated sheets | 58 | 0.1 | 66 | 0.1 | 69 | 0.1 | 66 | 0.1 | 68 | 0.1 |
| Sheets-Hot rolled | 12,952 | 17.7 | 13,133 | 17.8 | 11,619 | 17.2 | 9,052 | 14.7 | 13,451 | 15.2 |
| -Cold rolled | 13,574 | 18.6 | 13,664 | 18.5 | 13,781 | 20.4 | 11,132 | 18.1 | 14,396 | 16.3 |
| Sheets & Strip-Galvanized-Hot dipped | 6,850 | 9.4 | 6,100 | 8.3 | 5,793 | 8.6 | 4,878 | 7.9 | 5,375 | 6.1 |
| -Electrolytic | 697 | 0.9 | 659 | 0.9 | 641 | 0.9 | 491 | 0.8 | 548 | 0.6 |
| -All other metallic coated | 1,122 | 1.5 | 1,109 | 1.5 | 946 | 1.4 | 694 | 1.1 | 836 | 0.9 |
| -Electrical | 413 | 0.6 | 490 | 0.7 | 458 | 0.7 | 445 | 0.7 | 599 | 0.7 |
| Strip-Hot rolled | 586 | 0.8 | 650 | 0.9 | 633 | 0.9 | 498 | 0.8 | 660 | 0.7 |
| -Cold rolled | 876 | 1.2 | 1,002 | 1.3 | 920 | 1.4 | 724 | 1.2 | 1,060 | 1.2 |
| Total Steel Mill Products | 73,043 | 100.0 | 73,739 | 100.0 | 67,583 | 100.0 | 61,567 | 100.0 | 88,450 | 100.0 |
| Carbon | 64,360 | 88.1 | 65,009 | 88.2 | 60,292 | 89.2 | 53,947 | 87.6 | 76,554 | 86.6 |
| Stainless and heat resisting | 1,251 | 1.7 | 1,248 | 1.7 | 1,137 | 1.7 | 894 | 1.5 | 1,163 | 1.3 |
| Alloy (other than stainless) | 7,432 | 10.2 | 7,482 | 10.1 | 6,154 | 9.1 | 6,726 | 10.9 | 10,732 | 12.1 |
| **Total Steel Mill Product Shipments by Months*** | | | | | | | | | | |
| January | 6,017 | | 5,980 | | 4,583 | | 5,608 | | 7,616 | |
| February | 5,598 | | 6,150 | | 4,588 | | 5,434 | | 7,375 | |
| March | 6,344 | | 7,240 | | 5,969 | | 6,163 | | 8,422 | |
| April | 6,425 | | 6,472 | | 5,399 | | 5,488 | | 8,108 | |
| May | 6,519 | | 6,948 | | 5,612 | | 5,149 | | 7,932 | |
| June | 6,125 | | 6,686 | | 5,986 | | 5,372 | | 8,148 | |
| July | 5,710 | | 5,820 | | 5,045 | | 4,514 | | 7,115 | |
| August | 6,064 | | 6,033 | | 5,789 | | 4,724 | | 7,020 | |
| September | 5,848 | | 5,454 | | 5,893 | | 4,760 | | 7,039 | |
| October | 6,308 | | 6,087 | | 6,078 | | 4,309 | | 6,723 | |
| November | 5,654 | | 5,317 | | 6,014 | | 4,088 | | 5,783 | |
| December | 5,821 | | 4,867 | | 6,269 | | 4,234 | | 5,666 | |
| Total* | 73,043 | | 73,739 | | 67,583 | | 61,567 | | 88,450 | |

*Totals include adjustments not shown in monthly figures

# Table 12

## Net Shipments of Steel Mill Products by Market Classifications
## All Grades

(Thousands of net tons)

| Market Classifications | 1990 | | 1989 | | 1988 | | 1987 | | 1986 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Steel for converting and processing | 9,441 | 11.1 | 8,235 | 9.8 | 8,492 | 10.1 | 7,195 | 9.4 | 5,635 | 8.0 |
| Independent forgers (not elsewhere classified) | 958 | 1.1 | 852 | 1.0 | 804 | 1.0 | 668 | 0.9 | 538 | 0.8 |
| Industrial fasteners | 373 | 0.4 | 351 | 0.4 | 402 | 0.5 | 396 | 0.5 | 427 | 0.6 |
| Steel service centers & distributors | 21,111 | 24.8 | 20,769 | 24.7 | 21,037 | 25.1 | 19,840 | 25.9 | 17,478 | 24.9 |
| Construction, including maintenance | 9,245 | 10.9 | 8,318 | 9.9 | 8,607 | 10.3 | 7,681 | 10.0 | 7,336 | 10.4 |
| Contractors' products | 2,870 | 3.4 | 3,182 | 3.8 | 3,495 | 4.2 | 3,337 | 4.4 | 3,278 | 4.7 |
| Total | 12,115 | 14.3 | 11,500 | 13.7 | 12,102 | 14.4 | 11,018 | 14.4 | 10,614 | 15.1 |
| Automotive: | | | | | | | | | | |
| Vehicles, parts, etc. | 10,906 | 12.9 | 11,560 | 13.7 | 12,259 | 14.6 | 11,121 | 14.5 | 11,627 | 16.5 |
| Independent forgers | 194 | 0.2 | 203 | 0.3 | 296 | 0.4 | 222 | 0.3 | 262 | 0.4 |
| Total | 11,100 | 13.1 | 11,763 | 14.0 | 12,555 | 15.0 | 11,343 | 14.8 | 11,889 | 16.9 |
| Rail Transportation: | | | | | | | | | | |
| Freight cars, pass. cars & locomotives | 494 | 0.6 | 662 | 0.8 | 628 | 0.7 | 351 | 0.5 | 267 | 0.4 |
| Rails and all other | 586 | 0.7 | 567 | 0.1 | 518 | 0.6 | 407 | 0.5 | 531 | 0.7 |
| Total | 1,080 | 1.3 | 1,229 | 1.5 | 1,146 | 1.4 | 758 | 1.0 | 798 | 1.1 |
| Shipbuilding and marine equipment | 339 | 0.4 | 364 | 0.0 | 303 | 0.4 | 202 | 0.3 | 211 | 0.3 |
| Aircraft and aerospace | 33 | 0.0 | 43 | 0.1 | 37 | ... | 36 | ... | 39 | ... |
| Oil and gas industry | 1,892 | 2.2 | 1,203 | 1.4 | 1,477 | 1.8 | 1,489 | 1.9 | 1,023 | 1.5 |
| Mining, quarrying and lumbering | 545 | 0.6 | 463 | 0.6 | 493 | 0.6 | 402 | 0.5 | 275 | 0.4 |
| Agricultural: | | | | | | | | | | |
| Agricultural machinery | 496 | 0.5 | 462 | 0.5 | 444 | 0.6 | 394 | 0.5 | 373 | 0.6 |
| All other | 216 | 0.3 | 143 | 0.2 | 124 | 0.1 | 196 | 0.3 | 228 | 0.3 |
| Total | 712 | 0.8 | 605 | 0.7 | 568 | 0.7 | 590 | 0.8 | 601 | 0.9 |
| Machinery, industrial equipment & tools | 2,388 | 2.8 | 2,409 | 2.9 | 2,798 | 3.3 | 2,277 | 3.0 | 2,076 | 3.0 |
| Electrical equipment | 2,453 | 2.9 | 2,449 | 2.9 | 2,459 | 2.9 | 2,373 | 3.1 | 2,113 | 3.0 |
| Appliances, utensils and cutlery | 1,540 | 1.8 | 1,721 | 2.0 | 1,638 | 2.0 | 1,633 | 2.1 | 1,648 | 2.3 |
| Other domestic and commercial equipment | 1,077 | 1.3 | 1,140 | 1.4 | 1,200 | 1.4 | 1,149 | 1.5 | 1,173 | 1.7 |
| Containers, packaging and shipping materials: | | | | | | | | | | |
| Cans and closures | 3,332 | 3.9 | 3,344 | 3.9 | 3,159 | 3.8 | 3,233 | 4.2 | 3,020 | 4.3 |
| Barrels, drums and shipping pails | 639 | 0.8 | 567 | 0.7 | 617 | 0.7 | 618 | 0.8 | 519 | 0.7 |
| All other | 503 | 0.6 | 548 | 0.7 | 645 | 0.8 | 521 | 0.7 | 574 | 0.9 |
| Total | 4,474 | 5.3 | 4,459 | 5.3 | 4,421 | 5.3 | 4,372 | 5.7 | 4,113 | 5.9 |
| Ordnance and other military | 125 | 0.1 | 169 | 0.2 | 192 | 0.2 | 199 | 0.3 | 228 | 0.3 |
| Export (reporting companies only) | 2,487 | 2.9 | 3,183 | 3.8 | 1,233 | 1.5 | 515 | 0.7 | 495 | 0.7 |
| Nonclassified shipments | 10,736 | 12.6 | 11,193 | 13.3 | 10,483 | 12.5 | 10,199 | 13.2 | 8,885 | 12.6 |
| Total Shipments | 84,981 | 100.0 | 84,100 | 100.0 | 83,840 | 100.0 | 76,654 | 100.0 | 70,263 | 100.0 |

# Table 12 (continued)

## Net Shipments of Steel Mill Products by Market Classifications
## All Grades

(Thousands of net tons)

| Market Classifications | 1985 | | 1984 | | 1983 | | 1982 | | 1981 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Steel for converting and processing | 5,484 | 7.5 | 5,136 | 7.0 | 4,403 | 6.5 | 3,222 | 5.2 | 5,058 | 5.7 |
| Independent forgers (not elsewhere classified) | 708 | 1.0 | 775 | 1.1 | 573 | 0.8 | 579 | 0.9 | 1,035 | 1.2 |
| Industrial fasteners | 386 | 0.5 | 455 | 0.6 | 440 | 0.7 | 404 | 0.7 | 648 | 0.7 |
| Steel service centers & distributors | 18,439 | 25.2 | 18,364 | 24.9 | 16,710 | 24.7 | 13,067 | 21.2 | 17,637 | 19.9 |
| Construction, including maintenance | 7,900 | 10.8 | 7,522 | 10.2 | 7,271 | 10.8 | 6,283 | 10.2 | 8,446 | 9.5 |
| Contractors' products | 3,330 | 4.6 | 2,631 | 3.6 | 2,703 | 4.0 | 2,287 | 3.7 | 3,230 | 3.7 |
| Total | 11,230 | 15.4 | 10,153 | 13.8 | 9,974 | 14.8 | 8,570 | 13.9 | 11,676 | 13.2 |
| Automotive: | | | | | | | | | | |
| Vehicles, parts, etc. | 12,689 | 17.3 | 12,571 | 17.1 | 12,052 | 17.8 | 9,111 | 14.8 | 12,808 | 14.5 |
| Independent forgers | 261 | 0.4 | 311 | 0.4 | 268 | 0.4 | 177 | 0.3 | 346 | 0.4 |
| Total | 12,950 | 17.7 | 12,882 | 17.5 | 12,320 | 18.2 | 9,288 | 15.1 | 13,154 | 14.9 |
| Rail Transportation: | | | | | | | | | | |
| Freight cars, pass. cars & locomotives | 280 | 0.4 | 347 | 0.4 | 217 | 0.3 | 382 | 0.6 | 976 | 1.1 |
| Rails and all other | 781 | 1.0 | 1,091 | 1.5 | 720 | 1.1 | 638 | 1.1 | 1,186 | 1.3 |
| Total | 1,061 | 1.4 | 1,438 | 1.9 | 937 | 1.4 | 1,020 | 1.7 | 2,162 | 2.5 |
| Shipbuilding and marine equipment | 337 | 0.5 | 471 | 0.6 | 471 | 0.7 | 399 | 0.6 | 1,101 | 1.2 |
| Aircraft and aerospace | 39 | ... | 37 | 0.1 | 21 | ... | 30 | ... | 37 | ... |
| Oil and gas industry | 2,044 | 2.8 | 2,003 | 2.7 | 1,296 | 1.9 | 2,745 | 4.5 | 6,238 | 7.1 |
| Mining, quarrying and lumbering | 298 | 0.4 | 298 | 0.4 | 262 | 0.4 | 254 | 0.4 | 493 | 0.6 |
| Agricultural: | | | | | | | | | | |
| Agricultural machinery | 442 | 0.7 | 480 | 0.6 | 417 | 0 6 | 425 | 0.7 | 820 | 0.9 |
| All other | 187 | 0.2 | 193 | 0.3 | 282 | 0.4 | 519 | 0.8 | 409 | 0.5 |
| Total | 629 | 0.9 | 673 | 0.9 | 699 | 1.0 | 944 | 1.5 | 1,229 | 1.4 |
| Machinery, industrial equipment & tools | 2,271 | 3.1 | 2,886 | 3.9 | 2,484 | 3.7 | 2,584 | 4.2 | 4,624 | 5.2 |
| Electrical equipment | 1,869 | 2.6 | 2,365 | 3.2 | 2,337 | 3.5 | 2,003 | 3.3 | 2,600 | 2.9 |
| Appliances, utensils and cutlery | 1,466 | 2.0 | 1,635 | 2.2 | 1,618 | 2.4 | 1,337 | 2.2 | 1,775 | 2.0 |
| Other domestic and commercial equipment | 1,215 | 1.7 | 1,339 | 1.8 | 1,363 | 2.0 | 1,247 | 2.0 | 1,622 | 1.8 |
| Containers, packaging and shipping materials: | | | | | | | | | | |
| Cans and closures | 3,044 | 4.2 | 3,268 | 4.4 | 3,443 | 5.1 | 3,480 | 5.7 | 3,786 | 4.3 |
| Barrels, drums and shipping pails | 465 | 0.6 | 507 | 0.7 | 535 | 0.8 | 536 | 0.9 | 744 | 0.8 |
| All other | 580 | 0.8 | 577 | 0.8 | 554 | 0.8 | 454 | 0.7 | 762 | 0.9 |
| Total | 4,089 | 5.6 | 4,352 | 5.9 | 4,532 | 6.7 | 4,470 | 7.3 | 5,292 | 6.0 |
| Ordnance and other military | 267 | 0.4 | 242 | 0.3 | 244 | 0.4 | 203 | 0.3 | 166 | 0.2 |
| Export (reporting companies only) | 494 | 0.7 | 428 | 0.6 | 544 | 0.8 | 832 | 1.4 | 1,845 | 2.1 |
| Nonclassified shipments | 7,767 | 10.6 | 7,807 | 10.6 | 6,355 | 9.4 | 8,369 | 13.6 | 10,058 | 11.4 |
| **Total Shipments** | 73,043 | 100.0 | 73,739 | 100.0 | 67,583 | 100.0 | 61,567 | 100.0 | 88,450 | 100.0 |

# Table 13

## Shipments of Steel Mill Products by Market Classification–1990
## All Grades

(Net Tons)

| | Steel for Converting and Processing | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Total Shipments | Less Shipments to Reporting Companies | Net Shipments | Independent Forgers (Not elsewhere classified) | Industrial Fasteners | Steel Service Centers and Distrib–utors | Construction Including Mainte–nance | Con–tractors' Products |
| Ingots, blooms, slabs, billets | 1,701,671 | 1,096,602 | 605,069 | 281,429 | 30 | 105,894 | 52,977 | 26 |
| Wire rods | 1,776,060 | 9,197 | 1,766,863 | 1,286 | 81,969 | 17,005 | 866,656 | 8,350 |
| Structural shapes(3″ & over) | 101,038 | 20 | 101,018 | – | – | 1,259,137 | 2,474,112 | 2,363 |
| Steel piling | 22 | – | 22 | – | – | 115,790 | 290,337 | – |
| Plates cut lengths & coils | 1,778,744 | 518,638 | 1,260,106 | 64 | 3,996 | 2,828,570 | 807,732 | 40,475 |
| Rails & railroad accessories | – | – | – | – | – | 38,347 | 1,496 | – |
| Bars–Hot rolled (including light shapes) | 1,350,769 | 551,133 | 799,636 | 670,098 | 183,670 | 1,182,217 | 547,763 | 43,924 |
| –Reinforcing | 816,990 | – | 816,990 | 2,497 | 986 | 621,873 | 2,742,887 | 27,009 |
| –Cold finished | 35,548 | 1,232 | 34,316 | 2,515 | 9,035 | 325,191 | 1,608 | 13,234 |
| Tool steel | 1,024 | 1,024 | – | – | – | – | – | – |
| Pipe and tubing–Standard | 12,444 | 9,489 | 2,955 | – | – | 737,974 | 12,000 | 30,225 |
| –Oil Country Goods | 4,653 | 385 | 4,268 | – | – | 159,687 | – | – |
| –Line | 5,284 | 4,223 | 1,061 | – | – | 195,831 | 3,463 | 127 |
| –Mechanical | 27,713 | 3,020 | 24,693 | 65 | 137 | 165,890 | 12,929 | 4,201 |
| –Pressure | – | – | – | – | – | 8,748 | 23 | 101 |
| –Structural | – | – | – | 5 | – | 75,536 | 21,364 | 3,063 |
| –Pipe for piling | 1 | – | 1 | – | – | 6,004 | 9,289 | – |
| –Stainless | 1,776 | 4 | 1,772 | – | – | 12,114 | 1,259 | 260 |
| Wire–Drawn and/or rolled | 104,548 | 375 | 104,173 | 2 | 31,142 | 209,765 | 4,403 | 24,160 |
| Black plate | 52,792 | 19,433 | 33,359 | – | – | 68,404 | 6,389 | 43,931 |
| Tin plate | 65,284 | – | 65,284 | – | – | 198,151 | – | 1,371 |
| Tin free steel | 8,614 | – | 8,614 | – | – | 35,320 | – | 77 |
| Tin coated sheets | (7) | – | (7) | – | – | 29,764 | 141 | 257 |
| Sheets–Hot rolled | 3,213,594 | 962,905 | 2,250,689 | – | 11,736 | 5,803,789 | 371,889 | 282,517 |
| –Cold rolled | 1,562,789 | 195,278 | 1,367,511 | – | 4,659 | 4,050,463 | 49,259 | 711,515 |
| Sheets & strip–Galvanized | 45,096 | 8,632 | 36,464 | 169 | 11,392 | 2,388,813 | 644,674 | 1,402,243 |
| –All other metallic coated | 7,874 | 337 | 7,537 | – | 721 | 303,872 | 290,851 | 195,822 |
| –Electrical | 3,600 | 3,558 | 42 | – | – | 22,568 | 38 | 183 |
| Strip–Hot rolled | 110,857 | 4,251 | 106,606 | 42 | 29,271 | 71,512 | 29,468 | 3,211 |
| –Cold rolled | 47,096 | 5,276 | 41,820 | 4 | 4,434 | 72,972 | 2,365 | 31,180 |
| Total – All Grades | 12,835,874 | 3,395,012 | 9,440,862 | 958,176 | 373,178 | 21,111,201 | 9,245,372 | 2,869,825 |
| % | – | – | 11.1 | 1.1 | 0.4 | 24.8 | 10.9 | 3.4 |

# Table 13 (continued)

## Shipments of Steel Mill Products by Market Classification–1990
## All Grades

(Net Tons)

| | Automotive | Rail trans-portation | Ship building and Marine Equipment | Aircraft and Aerospace | Oil and Gas Industry | Mining Quarrying and Lumbering | Agricultural | Machinery, Industrial Equipment and Tools |
|---|---|---|---|---|---|---|---|---|
| Ingots, blooms, slabs, billets | 40,718 | 100,709 | 207 | 12,168 | 20,235 | 140 | 44 | 99,780 |
| Wire rods | 87,324 | 1,679 | 2,007 | 791 | 3,500 | 72 | 48,117 | 153,866 |
| Structural shapes(3" & over) | 84,900 | 43,446 | 38,176 | – | 7,447 | 504 | 3,887 | 57,794 |
| Steel piling | – | 1,412 | 44 | – | – | – | – | – |
| Plates cut lengths & coils | 520,641 | 325,681 | 288,779 | 9,078 | 136,803 | 25,746 | 61,535 | 630,791 |
| Rails & railroad accessories | – | 424,496 | – | – | – | 12,251 | – | – |
| Bars–Hot rolled (including light shapes) | 1,288,741 | 95,717 | 6,546 | 4,809 | 85,552 | 351,512 | 107,349 | 481,139 |
| –Reinforcing | 2,058 | – | – | – | 1,727 | 96,885 | 2 | 2,993 |
| –Cold finished | 102,731 | 508 | 811 | 519 | 4,938 | 4,872 | 20,983 | 161,606 |
| Tool steel | – | – | – | – | – | – | – | – |
| Pipe and tubing–Standard | 5,534 | 2,186 | – | (72) | 134,495 | – | 1,464 | 2,069 |
| –Oil Country Goods | – | – | – | – | 885,660 | – | – | – |
| –Line | – | 29 | – | – | 539,898 | – | 68 | (2) |
| –Mechanical | 137,030 | 424 | 61 | 959 | 52,538 | 555 | 15,542 | 229,512 |
| –Pressure | – | – | – | – | 100 | – | – | 10,478 |
| –Structural | 69 | – | – | – | 15,648 | – | 4,118 | 3,240 |
| –Pipe for piling | – | – | – | – | – | – | – | – |
| –Stainless | – | – | 5 | 250 | 34 | – | – | 3,753 |
| Wire–Drawn and/or rolled | 17,101 | 266 | 2 | 2 | 1 | 145 | 1,682 | 33,681 |
| Black plate | 3,491 | – | – | – | – | – | – | 3,863 |
| Tin plate | 42,858 | – | – | – | – | – | 405 | 4,578 |
| Tin free steel | 2,437 | – | – | – | – | – | – | 14 |
| Tin coated sheets | 40,051 | – | – | – | – | – | – | 306 |
| Sheets–Hot rolled | 1,647,257 | 75,053 | 1,951 | 1,172 | – | 48,530 | 120,922 | 133,383 |
| –Cold rolled | 2,510,613 | 277 | 105 | 215 | – | 21 | 62,145 | 174,814 |
| Sheets & strip–Galvanized | 3,905,222 | 2,382 | 75 | 406 | 221 | – | 188,188 | 39,836 |
| –All other metallic coated | 315,328 | – | – | – | – | – | 8,200 | 10,246 |
| –Electrical | 1,369 | 4,111 | 13 | 30 | – | – | – | 10,383 |
| Strip–Hot rolled | 206,634 | 1,862 | 140 | 1,115 | 2,699 | 3,045 | 67,158 | 81,786 |
| –Cold rolled | 138,290 | 133 | 7 | 1,094 | 458 | 403 | 359 | 58,011 |
| Total – All Grades | 11,100,397 | 1,080,371 | 338,929 | 32,536 | 1,891,954 | 544,681 | 712,168 | 2,387,920 |
| % | 13.1 | 1.3 | 0.4 | 0.0 | 2.2 | 0.6 | 0.8 | 2.8 |

# Table 13 (continued)

## Shipments of Steel Mill Products by Market Classification–1990
## All Grades

(Net Tons)

| | Electrical Equipment | Appliances Utensils and Cutlery | Other Domestic and Commercial Equipment | Containers, Packaging and Shipping Materials | Ordnance and Other Military | Export (Reporting Companies Only) | Non–classified Shipments | Total | % |
|---|---|---|---|---|---|---|---|---|---|
| Ingots, blooms, slabs, billets | 47 | – | 3,313 | 9,679 | 35,446 | 168,506 | 450,701 | 1,987,118 | 2.3 |
| Wire rods | 24,093 | 2,664 | 139,525 | 275 | – | 65,632 | 1,054,066 | 4,325,740 | 5.1 |
| Structural shapes(3" & over) | 294 | – | 108 | 20 | – | 130,635 | 1,466,111 | 5,669,952 | 6.7 |
| Steel piling | – | – | – | – | – | 14,781 | 483 | 422,869 | 0.5 |
| Plates cut lengths & coils | 52,298 | 14,317 | 9,871 | 3,878 | 32,847 | 277,734 | 613,682 | 7,944,624 | 9.3 |
| Rails & railroad accessories | – | – | – | – | – | 42,003 | – | 518,593 | 0.6 |
| Bars–Hot rolled (including light shapes) | 13,974 | 4,958 | 35,760 | 316 | 25,699 | 85,789 | 1,862,495 | 7,877,664 | 9.2 |
| –Reinforcing | – | – | – | – | – | 63,622 | 925,479 | 5,305,008 | 6.2 |
| –Cold finished | 5,178 | 5,729 | 7,120 | 16 | 14,312 | 8,811 | 762,421 | 1,486,454 | 1.7 |
| Tool steel | – | – | – | – | – | 844 | 56,861 | 57,705 | 0.1 |
| Pipe and tubing–Standard | 178,317 | 440 | 3,534 | – | – | 12,766 | 61,099 | 1,184,986 | 1.4 |
| –Oil Country Goods | – | – | – | – | – | 85,608 | 83,322 | 1,218,545 | 1.4 |
| –Line | 487 | – | 319 | – | – | 54,285 | 327,666 | 1,123,232 | 1.3 |
| –Mechanical | 2,287 | 6,800 | 18,915 | – | 5,990 | 19,614 | 164,631 | 862,773 | 1.0 |
| –Pressure | – | 6 | – | – | – | 1,902 | 27,179 | 48,537 | 0.1 |
| –Structural | 466 | – | 209 | – | – | 333 | 13,060 | 137,111 | 0.2 |
| –Pipe for piling | – | – | – | – | – | – | 19,719 | 35,013 | 0.0 |
| –Stainless | 783 | 78 | 7 | – | – | 966 | 20,092 | 41,373 | 0.0 |
| Wire–Drawn and/or rolled | 5,094 | 5,441 | 44,404 | 2,457 | 118 | 3,842 | 430,069 | 917,950 | 1.1 |
| Black plate | 3,284 | 1,121 | 15,795 | 78,075 | – | 12,634 | – | 270,346 | 0.3 |
| Tin plate | 3,317 | 7,235 | 4,758 | 2,401,163 | – | 44,367 | – | 2,773,487 | 3.3 |
| Tin free steel | 7,320 | (20) | (7) | 840,016 | – | 15,304 | – | 909,075 | 1.1 |
| Tin coated sheets | 3,348 | 602 | 298 | 4,246 | – | 49 | – | 79,055 | 0.1 |
| Sheets–Hot rolled | 501,408 | 80,363 | 106,680 | 219,188 | 136 | 729,467 | 1,001,850 | 13,387,980 | 15.8 |
| –Cold rolled | 1,134,894 | 1,090,859 | 583,872 | 675,179 | 4,391 | 228,647 | 549,165 | 13,198,604 | 15.5 |
| Sheets & strip–Galvanized | 133,092 | 233,190 | 66,983 | 27,695 | 3 | 254,262 | 608,746 | 9,944,056 | 11.7 |
| –All other metallic coated | 1,335 | 42,686 | 8,762 | 888 | – | 47,865 | 24,413 | 1,258,526 | 1.5 |
| –Electrical | 360,271 | 3,248 | 845 | – | – | 82,994 | 20 | 486,115 | 0.6 |
| Strip–Hot rolled | 1,775 | 3,724 | 6,113 | 5,453 | 469 | 18,109 | 52,281 | 692,473 | 0.8 |
| –Cold rolled | 19,693 | 37,002 | 19,825 | 205,702 | 6,065 | 15,738 | 160,463 | 816,018 | 1.0 |
| Total – All Grades | 2,453,055 | 1,540,443 | 1,077,009 | 4,474,246 | 125,476 | 2,487,109 | 10,736,074 | 84,980,982 | 100.0 |
| % | 2.9 | 1.8 | 1.3 | 5.3 | 0.1 | 2.9 | 12.6 | 100.0 | – |

# EXPORTS AND IMPORTS

The following tables, compiled from Department of Commerce report on Foreign Commerce and Navigation of the United States, give the tonnage of iron and steel products exported and imported during the period 1986–1990. Exports and imports of iron and steel products not stated by weight in the reports are necessarily omitted.

# Table 14

## Exports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Steel Mill Products: | | | | | |
| Ingots, blooms, billets, slabs, etc. | 522,326 | 390,816 | 61,430 | 73,543 | 58,885 |
| Wire rods | 106,633 | 36,094 | 10,161 | 8,217 | 5,876 |
| Structural shapes (3" & over) | 307,700 | 164,435 | 61,494 | 63,159 | 31,697 |
| Steel piling | 7,125 | 5,243 | 428 | 2,552 | 5,729 |
| Plates- cut lengths | 167,595 | 137,108 | 119,393 | 85,211 | 69,565 |
| -in coils | 290,740 | 493,587 | ++ | ++ | ++ |
| Rails-standard | 58,017 | 5,542 | 4,435 | 6,321 | 1,660 |
| -all other | 5,457 | 5,609 | 3,174 | 3,221 | 2,402 |
| Railroad accessories | 4,320 | 5,884 | 6,038 | 2,447 | 5,385 |
| Wheels and axles | + | + | + | 3,766 | 3,685 |
| Bars-hot rolled | 214,729 | 87,265 | 78,300 | 66,007 | 45,253 |
| -shapes under 3" | 52,921 | 16,745 | 13,461 | 11,563 | 6,995 |
| -concrete reinforcing | 118,920 | 87,801 | 23,480 | 20,550 | 14,197 |
| -cold finished | 53,885 | 40,854 | 21,717 | 20,687 | 12,636 |
| Tool steel | 4,594 | 18,492 | 4,502 | 3,061 | 2,144 |
| Standard pipe | 32,259 | 23,253 | 31,177 | 20,686 | 14,375 |
| Oil country goods | 194,772 | 319,871 | 95,057 | 29,746 | 35,619 |
| Line pipe | 73,420 | 27,927 | 13,218 | 5,714 | 10,531 |
| Mechanical tubing | 7,157 | 4,375 | 36,193 | 35,523 | 25,461 |
| Pressure tubing | + | + | 11,459 | 6,892 | 4,492 |
| Stainless pipe & tubing | 13,443 | 8,067 | 6,198 | 8,751 | 3,040 |
| Nonclassified pipe & tubing | 119,056 | 43,949 | 54,723 | 41,077 | 25,916 |
| Structural pipe & tubing | 24,797 | 14,427 | 2,365 | 3,767 | 1,616 |
| Pipe for piling | 5,879 | 1,127 | +++ | +++ | +++ |
| Wire-drawn | 70,052 | 31,344 | 36,164 | 26,146 | 26,081 |
| -barbed, iron or steel | + | + | + | 1,695 | 2,636 |
| -nails and staples | + | + | + | 7,905 | 5,862 |
| Black plate | 2,382 | ... | 139,125 | 73,967 | 70,488 |
| Tin plate | 147,706 | 188,291 | 287,403 | 158,998 | 206,286 |
| Tin free | 25,605 | 29,531 | 4,171 | 3,663 | 2,699 |
| Sheets-hot rolled | 685,367 | 1,156,378 | 419,037 | 103,962 | 75,906 |
| -cold rolled | 358,394 | 498,680 | 66,157 | 29,458 | 28,094 |
| Sheets & strip-galv.-hot dipped | 199,319 | 333,012 | 266,874 | 58,121 | 27,365 |
| -electrolytic | 87,061 | 111,159 | | | |
| -all other metallic coated | 104,075 | 103,355 | 66,474 | 62,764 | 52,457 |
| -electrical | 47,575 | 54,712 | 42,996 | 18,116 | 10,122 |
| Strip-hot rolled | 71,396 | 44,476 | 32,331 | 28,321 | 13,683 |
| -cold rolled | 117,903 | 88,534 | 49,488 | 32,942 | 20,319 |
| Total Steel Mill Products | 4,302,581 | 4,577,944 | 2,068,623 | 1,128,519 | 929,156 |
| Carbon | 3,734,811 | 4,106,839 | 1,494,960 | 772,962 | 687,029 |
| Alloy | 450,356 | 368,254 | 488,998 | 271,739 | 193,723 |
| Stainless | 117,414 | 102,851 | 84,666 | 83,818 | 48,404 |

+Included in Other Steel Products ++Included in Sheets hot rolled. +++Included in Structural pipe & tubing

# Table 14 (continued)

## Exports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Other Steel Products: | | | | | |
| Plates-fabricated | ... | ... | 2,485 | 2,296 | 3,088 |
| Sheets-fabricated | ... | ... | 17,693 | 8,412 | 8,046 |
| Structural shapes - fabricated | 214,045 | 124,790 | 49,692 | 35,662 | 34,098 |
| Shapes - cold formed | 9,269 | 2,903 | ... | ... | ... |
| Sashes and frames | 13,300 | 8,402 | 7,246 | 5,462 | 4,242 |
| Rails - used | 46,741 | 59,320 | 42,184 | 56,804 | 77,725 |
| Railway track material | 4,908 | 5,986 | 4,648 | 5,774 | 2,812 |
| Wheels and axles+ | 7,191 | 4,124 | 5,209 | ... | ... |
| Fence or sign posts | 1,250 | 1,393 | ... | ... | ... |
| Wire rope | 4,582 | 3,171 | 10,519 | 8,358 | 7,465 |
| Wire strand | 14,704 | 6,758 | | | |
| Wire springs | 29,893 | 37,050 | 31,661 | 23,189 | 11,069 |
| Grill, netting & fencing | 7,694 | 9,367 | 2,292 | 3,356 | 2,627 |
| Nails and staples+ | 11,853 | 9,688 | 11,291 | ... | ... |
| Barbed wire+ | 2,715 | 3,175 | 1,746 | ... | ... |
| Industrial fasteners | 180,823 | 135,626 | 78,439 | 55,608 | 44,186 |
| Fabricated wire products | ... | ... | 9,061 | 9,916 | 11,347 |
| Architectural & ornamental work | 1,533 | 2,254 | 1,668 | 1,472 | 2,552 |
| Chains & parts | 23,418 | 15,279 | 11,672 | 9,054 | 6,846 |
| Cast steel rolls | 12,448 | 4,856 | 3,608 | 1,880 | 1,243 |
| Grinding balls | 91,303 | 67,003 | ... | ... | ... |
| Conduit | 2,925 | 5,113 | ... | ... | ... |
| Pipe & tube fittings | 17,444 | 13,645 | 36,060 | 30,820 | 21,528 |
| Forgings | ... | ... | 73,279 | 78,202 | 46,649 |
| **Total Other Steel Products** | **698,038** | **519,903** | **400,453** | **336,263** | **285,522** |
| **Total Steel Products** | **5,000,618** | **5,097,847** | **2,469,077** | **1,464,782** | **1,214,678** |
| Iron Products & Ferroalloys: | | | | | |
| Cast iron tube,pipes,profiles & fittings | 88,043 | 71,834 | 56,736 | 26,991 | 61,632 |
| Malleable cast iron pipe fittings | 12,651 | 7,607 | 4,872 | 4,585 | 3,168 |
| Castings and forgings | 29,649 | 46,889 | 55,970 | 67,197 | 40,473 |
| Pig iron | 15,933 | 11,746 | 71,454 | 50,072 | 47,051 |
| Sponge iron | 69,235 | 25,490 | 18,810 | 16,629 | 11,529 |
| Ferroalloys | 92,538 | 112,918 | 80,470 | 77,460 | 72,722 |
| **Total Iron Products & Ferroalloys** | **308,049** | **276,485** | **288,313** | **242,935** | **236,576** |
| **Grand Total** | **5,308,667** | **5,374,332** | **2,757,389** | **1,707,717** | **1,451,254** |
| Iron and steel scrap | 12,764,791 | 13,305,433 | 10,097,557 | 10,366,667 | 11,703,677 |

+Prior to 1988 included in Steel Mill Products

# Table 15

## Exports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|
| Steel Mill Products: | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 522,326 | 390,816 | 61,430 | 73,543 | 58,885 | 89,708 | 73,536 | 102,754 | 362,293 | 540,598 |
| Wire rods | 106,633 | 36,094 | 10,161 | 8,217 | 5,876 | 4,740 | 8,646 | 6,137 | 24,961 | 101,774 |
| Structural shapes and pilings | 314,825 | 169,678 | 61,922 | 65,711 | 37,426 | 42,261 | 32,403 | 49,116 | 62,018 | 138,988 |
| Plates | 458,335 | 630,695 | 119,393 | 85,211 | 69,565 | 82,988 | 88,184 | 101,982 | 121,930 | 199,534 |
| Rails and accessories | 67,794 | 17,035 | 13,647 | 15,755 | 13,132 | 13,430 | 19,078 | 20,071 | 39,192 | 85,712 |
| Bars and tool steel | 445,049 | 251,157 | 141,460 | 121,868 | 81,225 | 99,036 | 133,595 | 170,052 | 222,608 | 337,463 |
| Pipe and tubing | 470,783 | 442,996 | 250,390 | 152,156 | 121,050 | 199,319 | 207,426 | 257,952 | 430,626 | 472,436 |
| Wire and wire products | 70,052 | 31,344 | 36,164 | 35,746 | 34,579 | 25,037 | 27,968 | 27,259 | 33,353 | 49,302 |
| Tin mill products | 175,693 | 217,822 | 430,699 | 236,628 | 279,473 | 163,904 | 162,020 | 249,556 | 312,017 | 470,810 |
| Sheets and strip | 1,671,090 | 2,390,306 | 943,357 | 333,684 | 227,946 | 211,491 | 227,557 | 213,698 | 233,269 | 507,176 |
| Total Steel Mill Products | 4,302,581 | 4,577,944 | 2,068,623 | 1,128,519 | 929,156 | 931,976 | 980,414 | 1,198,577 | 1,842,267 | 2,903,793 |
| Other Steel Products | 698,038 | 519,903 | 400,453 | 336,263 | 285,522 | 361,016 | 378,098 | 339,067 | 453,689 | 568,486 |
| Total Steel Products | 5,000,618 | 5,097,847 | 2,469,077 | 1,464,782 | 1,214,678 | 1,292,991 | 1,358,512 | 1,537,644 | 2,295,956 | 3,472,279 |
| Iron Products and ferroalloys | 308,049 | 276,485 | 288,313 | 242,935 | 236,576 | 276,231 | 368,081 | 227,094 | 292,029 | 302,446 |
| Grand total | 5,308,667 | 5,374,332 | 2,757,389 | 1,707,717 | 1,451,254 | 1,569,222 | 1,726,592 | 1,764,738 | 2,587,985 | 3,774,725 |

# Table 16

## Exports of Steel Mill Products

(Net Tons)

| Months | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|
| January | 374,068 | 257,195 | 89,457 | 65,326 | 86,828 | 65,997 | 86,253 | 94,513 | 173,403 | 255,736 |
| February | 312,670 | 237,345 | 100,219 | 87,135 | 72,764 | 73,275 | 73,074 | 92,122 | 153,543 | 212,903 |
| March | 365,461 | 606,209 | 113,654 | 83,619 | 73,830 | 76,528 | 79,994 | 88,940 | 197,296 | 260,094 |
| April | 335,330 | 333,676 | 116,333 | 94,357 | 72,371 | 71,252 | 72,687 | 105,754 | 147,572 | 291,048 |
| May | 351,964 | 355,358 | 124,344 | 114,511 | 61,209 | 84,930 | 90,031 | 100,931 | 194,314 | 259,418 |
| June | 317,750 | 403,278 | 125,891 | 98,864 | 70,194 | 83,233 | 85,895 | 100,182 | 180,094 | 279,433 |
| July | 302,058 | 302,744 | 128,280 | 84,093 | 67,643 | 81,333 | 89,790 | 108,250 | 145,546 | 217,564 |
| August | 268,692 | 461,326 | 139,352 | 91,445 | 85,591 | 100,855 | 94,076 | 100,123 | 152,434 | 194,438 |
| September | 343,872 | 363,849 | 206,760 | 98,604 | 102,950 | 63,385 | 76,358 | 99,000 | 158,258 | 228,080 |
| October | 424,805 | 617,752 | 244,207 | 86,113 | 71,825 | 77,090 | 88,558 | 109,868 | 133,356 | 233,084 |
| November | 493,629 | 251,373 | 242,806 | 114,246 | 87,180 | 73,202 | 61,026 | 114,210 | 105,988 | 244,423 |
| December | 412,281 | 386,493 | 437,323 | 110,208 | 76,770 | 80,894 | 82,645 | 64,459 | 97,370 | 227,490 |
| Total* | 4,302,581 | 4,577,944 | 2,068,623 | 1,128,519 | 929,156 | 931,976 | 980,414 | 1,198,577 | 1,842,267 | 2,903,793 |

*Totals include adjustments not shown in monthly figures.

# Table 17

## Exports of Iron and Steel Products by Countries of Destination–1990

(Net Tons)

| Products | Grand Total | Canada | Latin America | | | | |
|---|---|---|---|---|---|---|---|
| | | | Mexico | Vene-zuela | Brazil | Argen-tina | Total Latin Am. |
| **Steel Mill Products:** | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 522,326 | 90,408 | 16,126 | 313 | 2,692 | 23 | 134,296 |
| Wire rods | 106,633 | 46,883 | 35,106 | 451 | 528 | 1 | 37,066 |
| Structural shapes (3" & over) | 307,700 | 197,609 | 45,522 | 1,954 | 174 | 30 | 55,934 |
| Steel piling | 7,125 | 791 | 2,676 | 3 | 87 | ... | 4,090 |
| Plates- cut lengths | 167,595 | 121,287 | 22,070 | 1,681 | 132 | 885 | 27,841 |
| -in coils | 290,740 | 114,840 | 27,850 | 86 | 11 | 397 | 29,372 |
| Rails-standard | 58,017 | 9,346 | 46,810 | 362 | 168 | 5 | 48,186 |
| -all other | 5,457 | 2,316 | 1,961 | 1 | 6 | 35 | 2,783 |
| Railroad accessories | 4,320 | 3,951 | 317 | ... | ... | ... | 353 |
| Bars-hot rolled | 214,729 | 155,924 | 18,652 | 880 | 178 | 64 | 42,629 |
| -shapes under 3" | 52,921 | 27,734 | 12,734 | 1,204 | ... | 33 | 16,367 |
| -concrete reinforcing | 118,920 | 53,544 | 8,656 | 2,757 | ... | ... | 18,654 |
| -cold finished | 53,885 | 23,194 | 9,556 | 23 | 302 | 86 | 14,436 |
| Tool steel | 4,594 | 1,326 | 2,005 | 4 | 23 | 3 | 2,421 |
| Standard pipe | 32,259 | 18,468 | 2,923 | 1,479 | 147 | 192 | 7,040 |
| Oil country goods | 194,772 | 46,044 | 4,178 | 15,179 | 202 | 336 | 37,342 |
| Line pipe | 73,420 | 46,391 | 4,559 | 1,180 | 233 | 37 | 12,581 |
| Mechanical tubing | 7,157 | 6,306 | 670 | 20 | ... | ... | 786 |
| Stainless pipe & tubing | 13,443 | 6,423 | 3,458 | 158 | 17 | 29 | 4,354 |
| Nonclassified pipe & tubing | 119,056 | 86,718 | 6,415 | 713 | 62 | 326 | 15,853 |
| Structural pipe & tubing | 24,797 | 7,699 | 10,592 | 1 | ... | ... | 11,603 |
| Pipe for piling | 5,879 | 5,132 | 338 | 113 | ... | ... | 710 |
| Wire-drawn | 70,052 | 35,606 | 13,571 | 354 | 535 | 207 | 17,913 |
| Black Plate | 2,382 | ... | 309 | ... | ... | ... | 703 |
| Tin plate | 147,706 | 8,673 | 23,208 | ... | 1,552 | 882 | 37,962 |
| Tin free | 25,605 | 522 | 12,444 | ... | 46 | 254 | 13,433 |
| Sheets-hot rolled | 685,367 | 132,109 | 49,623 | 52 | 931 | 70 | 53,374 |
| -cold rolled | 358,394 | 91,078 | 153,867 | 135 | 5,615 | 16,299 | 187,753 |
| Sheets & strip-galv.-hot dipped | 199,319 | 128,954 | 9,854 | 18 | ... | ... | 10,225 |
| -electrolytic | 87,061 | 72,432 | 9,309 | 171 | 373 | 25 | 11,222 |
| -all other metallic coated | 104,075 | 69,826 | 24,027 | 16 | 77 | 14 | 25,001 |
| -electrical | 47,575 | 8,847 | 24,007 | 1,273 | 79 | 253 | 26,376 |
| Strip-hot rolled | 71,396 | 44,020 | 25,273 | 27 | 54 | 1 | 26,677 |
| -cold rolled | 117,903 | 77,363 | 23,005 | 24 | 487 | 44 | 24,733 |
| Total Steel Mill Products | 4,302,581 | 1,741,766 | 651,670 | 30,631 | 14,811 | 20,530 | 960,070 |
| Carbon | 3,709,689 | 1,517,883 | 542,487 | 14,204 | 12,327 | 19,350 | 782,753 |
| Alloy | 450,356 | 183,221 | 73,420 | 15,326 | 1,300 | 805 | 134,212 |
| Stainless | 142,536 | 40,662 | 35,763 | 1,101 | 1,184 | 376 | 43,105 |

Country detail may not add to regional total because of omissions of some countries.

# Table 17 (continued)

## Exports of Iron and Steel Products by Country of Destination -1990

(Net Tons)

| Products | Europe | | | | | | | | | Total Other Europe |
|---|---|---|---|---|---|---|---|---|---|---|
| | European Economic Community | | | | | | | | | |
| | United Kingdom | Nether-lands | Belgium | France | Fed. Rep. Germany | Italy | Spain | Total E.E.C.* | Sweden | |
| Steel Mill Products: | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 1,616 | 246 | 2,041 | 37,344 | 4,312 | 8,109 | 35 | 53,897 | 146 | 962 |
| Wire rods | 232 | 199 | 37 | 23 | 144 | 125 | 11 | 781 | 65 | 780 |
| Structural shapes (3" & over) | 1,086 | 822 | 134 | 198 | 833 | 240 | 15 | 3,449 | 6 | 67 |
| Steel piling | 1 | ... | ... | ... | 56 | ... | 1 | 66 | 12 | 75 |
| Plates- cut lengths | 340 | 65 | 12 | 18 | 231 | 2,306 | 182 | 3,181 | 44 | 112 |
| -in coils | 111 | 28 | 1 | 8 | 161 | ... | 11,134 | 27,603 | ... | ... |
| Rails-standard | 4 | ... | ... | ... | 16 | ... | ... | 20 | ... | 3 |
| -all other | 7 | ... | ... | ... | ... | ... | ... | 7 | 1 | 1 |
| Railroad accessories | ... | 3 | ... | ... | ... | ... | ... | 3 | ... | ... |
| Bars-hot rolled | 2,450 | 23 | 125 | 233 | 274 | 367 | 1,136 | 4,813 | 1,639 | 2,545 |
| -shapes under 3" | 214 | 20 | ... | 71 | 53 | 23 | 47 | 438 | 2 | 57 |
| -concrete reinforcing | ... | 76 | ... | 6 | 501 | 2,301 | ... | 2,885 | 141 | 12,006 |
| -cold finished | 1,778 | 1,140 | 73 | 144 | 4,075 | 139 | 28 | 7,456 | 57 | 2,562 |
| Tool steel | 33 | 29 | 11 | 17 | 231 | 82 | 1 | 408 | ... | 17 |
| Standard pipe | 303 | 1,156 | 5 | 334 | 21 | 53 | 181 | 2,115 | 23 | 331 |
| Oil country goods | 5,519 | 5,111 | 1,751 | 107 | 357 | 38,849 | 78 | 51,880 | 1 | 3,543 |
| Line pipe | 1,376 | 4 | 415 | ... | 192 | 211 | 35 | 2,292 | ... | 343 |
| Mechanical tubing | 8 | 8 | ... | ... | ... | ... | ... | 16 | ... | ... |
| Stainless pipe & tubing | 297 | 71 | 31 | 54 | 87 | 28 | 1 | 571 | 24 | 82 |
| Nonclassified pipe & tubing | 1,204 | 85 | 34 | 286 | 624 | 14 | 444 | 2,801 | 79 | 162 |
| Structural pipe & tubing | 599 | 361 | ... | 1 | 338 | 56 | ... | 1,365 | 359 | 826 |
| Pipe for piling | ... | ... | ... | ... | ... | ... | ... | ... | ... | 2 |
| Wire--drawn | 718 | 185 | 83 | 257 | 1,292 | 38 | 53 | 2,638 | 66 | 1,011 |
| Black Plate | ... | ... | ... | ... | 76 | ... | ... | 76 | ... | ... |
| Tin plate | 1 | ... | ... | 201 | 34 | 16,094 | 108 | 16,528 | ... | 3,861 |
| Tin free | 2,289 | ... | ... | ... | 1 | 2,941 | ... | 5,231 | ... | ... |
| Sheets-hot rolled | 1,289 | 4 | 36 | 62 | 239 | 19,591 | 1,421 | 40,656 | 14 | 275 |
| -cold rolled | 2,295 | 98 | 395 | 574 | 496 | 9,927 | 45 | 13,942 | 109 | 34,198 |
| Sheets & strip-galv.-hot dipped | 15,216 | ... | 4,668 | ... | 66 | 18,947 | 108 | 39,007 | ... | 11,998 |
| -electrolytic | 42 | 39 | 35 | ... | ... | 545 | 61 | 722 | ... | 1 |
| -all other metallic coated | 495 | 1,223 | 1,883 | 1 | 171 | 113 | ... | 3,888 | 103 | 493 |
| -electrical | 331 | 1 | ... | ... | 200 | 968 | ... | 1,728 | 2 | 302 |
| Strip-hot rolled | 112 | ... | 2 | 64 | 39 | 4 | ... | 310 | ... | 113 |
| -cold rolled | 2,781 | 124 | 88 | 919 | 1,128 | 1,178 | 38 | 6,331 | 81 | 257 |
| Total Steel Mill Products | 42,744 | 11,122 | 11,860 | 40,924 | 16,248 | 123,249 | 15,165 | 297,102 | 2,974 | 76,986 |
| Carbon | 27,444 | 4,339 | 8,037 | 2,003 | 10,772 | 101,559 | 13,287 | 202,418 | 2,518 | 68,594 |
| Alloy | 8,954 | 6,007 | 3,282 | 12,961 | 3,439 | 21,077 | 671 | 56,967 | 282 | 5,986 |
| Stainless | 6,346 | 775 | 540 | 25,960 | 2,038 | 614 | 1,206 | 37,717 | 174 | 2,406 |

*Includes total for Ireland, Denmark, Greece, Luxembourg & Portugal

# Table 17 (continued)

## Exports of Iron and Steel Products by Country of Destination –1990

(Net Tons)

| Products | Asia | | | | | Oceania | | Africa | |
|---|---|---|---|---|---|---|---|---|---|
| | Peoples Republic of China | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Egypt | Total Africa |
| Steel Mill Products: | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 44 | 17,755 | 742 | 66,297 | 149,943 | 115 | 121 | 33,045 | 92,699 |
| Wire rods | 3 | 398 | 157 | 19,397 | 21,084 | 30 | 32 | ... | 8 |
| Structural shapes (3" & over) | 456 | 16,976 | 4,560 | 4,433 | 47,151 | 714 | 2,322 | 169 | 1,166 |
| Steel piling | ... | 17 | 95 | 351 | 1,853 | 16 | 16 | 232 | 233 |
| Plates- cut lengths | 691 | 284 | 166 | 250 | 14,640 | 57 | 66 | ... | 467 |
| -in coils | 4 | 33,515 | 263 | 79,217 | 118,597 | 279 | 282 | ... | 46 |
| Rails-standard | ... | 278 | ... | 92 | 441 | 3 | 22 | ... | ... |
| -all other | ... | ... | 9 | 46 | 309 | 1 | 1 | ... | 40 |
| Railroad accessories | ... | ... | ... | 3 | 13 | ... | ... | ... | ... |
| Bars-hot rolled | 5 | 87 | 558 | 77 | 8,048 | 415 | 492 | 5 | 278 |
| -shapes under 3" | 47 | 219 | 24 | 6,753 | 7,831 | 235 | 249 | 1 | 245 |
| -concrete reinforcing | 1 | 14,596 | 386 | 4,462 | 31,218 | ... | 489 | ... | 126 |
| -cold finished | 86 | 146 | 2,010 | 379 | 5,557 | 511 | 538 | ... | 141 |
| Tool steel | 63 | 12 | 44 | 79 | 348 | 32 | 32 | ... | 42 |
| Standard pipe | 1 | 81 | 454 | 10 | 1,038 | 1,055 | 2,152 | 546 | 1,115 |
| Oil country goods | 1,213 | 1,407 | 704 | 171 | 34,382 | 812 | 4,285 | 774 | 17,296 |
| Line pipe | 368 | 1,932 | 15 | 86 | 6,280 | 101 | 179 | 264 | 5,354 |
| Mechanical tubing | ... | 22 | ... | ... | 39 | 3 | 3 | ... | 6 |
| Stainless pipe & tubing | 183 | 579 | 23 | 145 | 1,878 | 55 | 57 | ... | 77 |
| Nonclassified pipe & tubing | 2,484 | 1,566 | 448 | 2,735 | 8,454 | 1,270 | 1,320 | 2,810 | 3,748 |
| Structural pipe & tubing | 159 | 179 | 12 | 11 | 530 | 2,585 | 2,594 | ... | 180 |
| Pipe for piling | ... | ... | ... | 5 | 17 | ... | ... | ... | 18 |
| Wire-drawn | 61 | 160 | 145 | 11,197 | 12,127 | 115 | 130 | 1 | 627 |
| Black Plate | ... | ... | 108 | ... | 1,603 | ... | ... | ... | ... |
| Tin plate | 2,187 | 15 | 1,912 | 10,993 | 63,684 | ... | 868 | 5,533 | 16,130 |
| Tin free | ... | ... | 357 | 5 | 4,336 | 13 | 13 | ... | 2,070 |
| Sheets-hot rolled | 22 | 212,479 | 861 | 242,300 | 458,652 | 82 | 89 | 192 | 212 |
| -cold rolled | 114 | 2,762 | 1,849 | 1,218 | 29,284 | 143 | 158 | 1,962 | 1,981 |
| Sheets & strip-galv.-hot dipped | ... | ... | 1,541 | 44 | 7,542 | ... | ... | 1,526 | 1,593 |
| -electrolytic | 114 | 31 | 540 | 589 | 2,525 | 11 | 11 | ... | 148 |
| -all other metallic coated | 56 | 759 | 152 | 528 | 4,692 | 175 | 175 | ... | ... |
| -electrical | ... | 102 | 340 | 99 | 8,480 | 6 | 6 | 1,794 | 1,836 |
| Strip-hot rolled | 6 | 57 | 79 | 57 | 242 | 1 | 1 | ... | 33 |
| -cold rolled | 35 | 772 | 514 | 1,469 | 8,084 | 730 | 761 | 73 | 374 |
| Total Steel Mill Products | 8,401 | 307,184 | 19,068 | 453,501 | 1,060,904 | 9,567 | 17,465 | 48,927 | 148,288 |
| Carbon | 5,485 | 299,321 | 13,766 | 446,271 | 993,468 | 5,691 | 13,483 | 45,772 | 131,091 |
| Alloy | 2,531 | 5,033 | 2,631 | 5,584 | 51,427 | 2,543 | 2,615 | 3,090 | 15,929 |
| Stainless | 384 | 2,830 | 2,671 | 1,646 | 16,009 | 1,333 | 1,368 | 65 | 1,268 |

# Table 17A

## Exports of Iron and Steel Products by Countries of Destination–1990

(Net Tons)

| Products | Grand Total | Canada | Latin America | | | | |
|---|---|---|---|---|---|---|---|
| | | | Mexico | Vene-zuela | Brazil | Argen-tina | Total Latin Am. |
| Other Steel Products: | | | | | | | |
| Structural shapes - fabricated | 214,045 | 20,610 | 27,663 | 3,555 | 200 | 139 | 53,880 |
| Shapes - cold formed | 9,269 | 2,514 | 4,972 | 22 | ... | 56 | 6,347 |
| Sashes and frames | 13,300 | 6,580 | 983 | 76 | 5 | 64 | 3,017 |
| Rails - used | 46,741 | 1,495 | 38,711 | ... | ... | ... | 44,986 |
| Railway track material | 4,908 | 2,748 | 388 | 142 | 109 | 5 | 1,478 |
| Wheels and axles | 7,191 | 1,755 | 342 | 517 | 292 | 7 | 1,270 |
| Fence or sign posts | 1,250 | 168 | 186 | 335 | ... | ... | 713 |
| Wire rope | 4,582 | 1,613 | 813 | 5 | 1 | 4 | 1,668 |
| Wire strand | 14,704 | 6,123 | 2,300 | 66 | 11 | 188 | 5,005 |
| Wire springs | 29,893 | 22,625 | 4,506 | 73 | 90 | 12 | 4,799 |
| Grill, netting & fencing | 7,694 | 3,866 | 861 | 3 | 1 | ... | 2,219 |
| Nails and staples | 11,853 | 6,383 | 578 | 55 | 4 | 4 | 1,662 |
| Barbed wire | 2,715 | 586 | 1,073 | 15 | ... | ... | 1,306 |
| Industrial fasteners | 180,823 | 114,603 | 49,551 | 99 | 81 | 1 | 52,492 |
| Architectural & ornamental work | 1,534 | 334 | 7 | 2 | ... | ... | 148 |
| Chains & parts | 23,418 | 14,048 | 2,337 | 216 | 7 | 32 | 3,745 |
| Cast steel rolls | 12,448 | 11,737 | 145 | ... | ... | ... | 149 |
| Grinding balls | 91,303 | 63,472 | 7,710 | 229 | 63 | ... | 13,326 |
| Conduit | 2,925 | 79 | 72 | 43 | 12 | 3 | 577 |
| Pipe & tube fittings | 17,444 | 3,708 | 2,124 | 617 | 29 | 106 | 5,997 |
| Total Other Steel Products | 698,038 | 285,146 | 145,321 | 6,070 | 903 | 621 | 204,785 |
| Total Steel Products | 5,000,618 | 2,026,912 | 796,991 | 36,701 | 15,714 | 21,151 | 1,164,855 |
| Iron Products & Ferroalloys: | | | | | | | |
| Cast iron tube,pipes,profiles & fittings | 88,043 | 21,821 | 3,925 | 462 | 267 | 20 | 27,204 |
| Malleable cast iron pipe fittings | 12,651 | 8,874 | 676 | 103 | 1 | 1 | 1,503 |
| Castings and forgings | 29,649 | 14,561 | 3,375 | 632 | 60 | 169 | 6,745 |
| Pig iron | 15,933 | 2,697 | 2,997 | 756 | ... | ... | 3,799 |
| Sponge iron | 69,235 | 53,234 | 3,917 | 181 | 1,791 | 640 | 6,662 |
| Ferroalloys | 92,539 | 37,804 | 19,646 | 428 | 190 | 220 | 21,711 |
| Total Iron Products & Ferroalloys | 308,048 | 138,990 | 34,536 | 2,561 | 2,309 | 1,050 | 67,623 |
| Grand Total | 5,308,667 | 2,165,902 | 831,527 | 39,262 | 18,023 | 22,201 | 1,232,478 |
| Iron and steel scrap | 12,764,791 | 1,034,810 | 625,632 | 50,063 | 13,414 | 332 | 784,909 |

Country detail may not add to regional total because of omissions of some countries.

# Table 17A (continued)

## Exports of Iron and Steel Products by Country of Destination -1990

(Net Tons)

| Products | Europe | | | | | | | | | Total Other Europe |
|---|---|---|---|---|---|---|---|---|---|---|
| | European Economic Community | | | | | | | | | |
| | United Kingdom | Nether-lands | Belgium | France | Fed. Rep. Germany | Italy | Spain | Total E.E.C.* | Sweden | |
| Other Steel Products: | | | | | | | | | | |
| Structural shapes - fabricated | 6,024 | 672 | 161 | 166 | 17,864 | 2,441 | 2,463 | 30,125 | 177 | 1,864 |
| Shapes - cold formed | 42 | ... | ... | ... | 39 | ... | ... | 80 | ... | 85 |
| Sashes and frames | 950 | 9 | 9 | 72 | 120 | 16 | 48 | 1,340 | 12 | 209 |
| Rails - used | ... | ... | ... | ... | ... | ... | ... | ... | ... | 30 |
| Railway track material | 48 | 1 | 111 | ... | 14 | 9 | 12 | 194 | 1 | 10 |
| Wheels and axles | 14 | 9 | 1 | ... | 10 | 5 | 1 | 81 | ... | 74 |
| Fence or sign posts | 55 | 4 | ... | 16 | 10 | 85 | 1 | 190 | 1 | 7 |
| Wire rope | 167 | 2 | 10 | 18 | 236 | 88 | 7 | 531 | 177 | 249 |
| Wire strand | 188 | 96 | 379 | 10 | 41 | 19 | 48 | 784 | ... | 1,245 |
| Wire springs | 208 | 8 | 2 | 49 | 169 | 15 | 19 | 577 | 8 | 33 |
| Grill, netting & fencing | 51 | 4 | 627 | 19 | 11 | 9 | 1 | 742 | 2 | 161 |
| Nails and staples | 413 | 41 | 56 | 536 | 544 | 40 | 14 | 1,661 | 49 | 130 |
| Barbed wire | 72 | ... | ... | 91 | 4 | 46 | ... | 218 | ... | 46 |
| Industrial fasteners | 2,506 | 332 | 220 | 890 | 1,293 | 385 | 160 | 5,996 | 452 | 1,033 |
| Architectural & ornamental work | 312 | 59 | 42 | 64 | 60 | 11 | 7 | 573 | 148 | 211 |
| Chains & parts | 418 | 607 | 306 | 179 | 364 | 113 | 33 | 2,074 | 13 | 247 |
| Cast steel rolls | 18 | ... | ... | 10 | ... | ... | ... | 28 | ... | ... |
| Grinding balls | 582 | ... | ... | ... | 6 | 507 | 35 | 1,130 | 81 | 553 |
| Conduit | 206 | 8 | 2 | ... | 1 | 44 | ... | 261 | ... | 6 |
| Pipe & tube fittings | 636 | 124 | 14 | 504 | 188 | 115 | 49 | 1,718 | 171 | 403 |
| Total Other Steel Products | 12,909 | 1,976 | 1,941 | 2,626 | 20,973 | 3,947 | 2,898 | 48,304 | 1,293 | 6,595 |
| Total Steel Products | 55,653 | 13,098 | 13,801 | 43,550 | 37,221 | 127,196 | 18,063 | 345,406 | 4,267 | 83,581 |
| Iron Products & Ferroalloys: | | | | | | | | | | |
| Cast iron tube,pipes,profiles & fittings | 1,716 | 113 | 14 | 19 | 1,141 | 534 | 1,306 | 4,845 | 16 | 235 |
| Malleable cast iron pipe fittings | 512 | 166 | 162 | 45 | 100 | 1 | 12 | 1,041 | 40 | 66 |
| Castings and forgings | 463 | 2,097 | 576 | 898 | 350 | 100 | 194 | 4,699 | 21 | 64 |
| Pig iron | 6,220 | 438 | ... | ... | ... | ... | ... | 6,658 | ... | 107 |
| Sponge iron | 263 | 417 | 159 | 63 | 733 | 111 | 12 | 1,789 | 699 | 1,609 |
| Ferroalloys | 7,224 | 256 | 670 | 1,683 | 6,690 | 589 | 784 | 17,895 | 366 | 1,119 |
| Total Iron Products & Ferroalloys | 16,398 | 3,487 | 1,581 | 2,708 | 9,014 | 1,335 | 2,309 | 36,927 | 1,142 | 3,199 |
| Grand Total | 72,051 | 16,585 | 15,382 | 46,258 | 46,235 | 128,531 | 20,372 | 382,333 | 5,409 | 86,780 |
| Iron and steel scrap | 25,459 | 19,264 | 10,609 | 28,325 | 44,380 | 186,863 | 259,766 | 608,383 | 2,935 | 3,032,679 |

*Includes total for Ireland, Denmark, Greece, Luxembourg & Portugal

# Table 17A (continued)

## Exports of Iron and Steel Products by Country of Destination -1990

(Net Tons)

| Products | Asia | | | | | Oceania | | Africa | |
|---|---|---|---|---|---|---|---|---|---|
| | Peoples Republic of China | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Egypt | Total Africa |
| Other Steel Products: | | | | | | | | | |
| Structural shapes - fabricated | 628 | 1,661 | 988 | 24,792 | 62,556 | 14,985 | 15,119 | 1,635 | 29,892 |
| Shapes - cold formed | ... | 37 | 6 | ... | 157 | 52 | 86 | ... | ... |
| Sashes and frames | 77 | 162 | 144 | 170 | 1,606 | 445 | 504 | 8 | 45 |
| Rails - used | ... | ... | ... | 90 | 230 | ... | ... | ... | ... |
| Railway track material | 5 | 27 | 67 | 195 | 417 | 54 | 54 | ... | 7 |
| Wheels and axles | ... | 7 | 77 | ... | 268 | 343 | 386 | 2,471 | 3,357 |
| Fence or sign posts | 11 | 118 | 7 | 7 | 161 | 8 | 9 | ... | 4 |
| Wire rope | ... | 21 | 20 | 14 | 405 | 11 | 26 | 4 | 88 |
| Wire strand | 56 | 8 | 11 | 619 | 1,433 | 8 | 10 | 1 | 103 |
| Wire springs | 26 | 160 | 11 | 154 | 1,297 | 473 | 537 | 6 | 25 |
| Grill, netting & fencing | .. | 50 | 2 | 18 | 144 | 17 | 102 | 51 | 460 |
| Nails and staples | 3 | 261 | 19 | 551 | 1,453 | 336 | 374 | ... | 190 |
| Barbed wire | ... | 3 | 11 | 5 | 273 | 118 | 129 | 39 | 58 |
| Industrial fasteners | 162 | 426 | 1,411 | 1,124 | 5,034 | 1,245 | 1,401 | 72 | 263 |
| Architectural & ornamental work | 8 | ... | ... | 61 | 231 | 31 | 32 | ... | 5 |
| Chains & parts | 8 | 253 | 505 | 462 | 2,254 | 712 | 773 | 2 | 276 |
| Cast steel rolls | ... | 247 | 34 | 229 | 533 | ... | ... | ... | ... |
| Grinding balls | ... | 1 | 3,847 | 4,009 | 12,222 | 562 | 562 | 39 | 39 |
| Conduit | 44 | 6 | 119 | 25 | 1,402 | 55 | 55 | 527 | 544 |
| Pipe & tube fittings | 87 | 1,095 | 139 | 230 | 4,565 | 357 | 383 | 507 | 671 |
| Total Other Steel Products | 1,115 | 4,542 | 7,418 | 32,754 | 96,640 | 19,814 | 20,540 | 5,363 | 36,027 |
| Total Steel Products | 9,516 | 311,726 | 26,486 | 486,255 | 1,157,544 | 29,381 | 38,005 | 54,290 | 184,315 |
| Iron Products & Ferroalloys: | | | | | | | | | |
| Cast iron tube,pipes,profiles & fittings | 43 | 361 | 208 | 356 | 30,508 | 228 | 263 | 819 | 3,167 |
| Malleable cast iron pipe fittings | 1 | 89 | 77 | 182 | 923 | 61 | 109 | 73 | 136 |
| Castings and forgings | 95 | 242 | 100 | 322 | 2,524 | 572 | 729 | 124 | 328 |
| Pig iron | ... | 2,176 | ... | 202 | 2,454 | ... | ... | ... | 218 |
| Sponge iron | ... | 387 | 698 | 3,949 | 5,834 | 49 | 49 | 20 | 57 |
| Ferroalloys | 53 | 3,194 | 1,037 | 2,948 | 8,570 | 2,044 | 2,561 | 2,084 | 2,879 |
| Total Iron Products & Ferroalloys | 193 | 6,449 | 2,120 | 7,959 | 50,812 | 2,955 | 3,712 | 3,120 | 6,785 |
| Grand Total | 9,709 | 318,175 | 28,606 | 494,214 | 1,208,356 | 32,336 | 41,717 | 57,410 | 191,100 |
| Iron and steel scrap | 72,392 | 3,230,958 | 529,796 | 529,934 | 7,254,119 | 170 | 187 | 49,703 | 49,703 |

# Table 18

## Imports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Steel Mill Products: | | | | | |
| Ingots, blooms, billets, slabs, etc. | 2,362,843 | 2,197,833 | 2,844,979 | 2,282,654 | 2,084,096 |
| Wire rods | 959,975 | 1,107,506 | 1,493,833 | 1,467,030 | 1,357,875 |
| Structural shapes (3" & over) | 826,279 | 1,399,379 | 1,847,287 | 1,778,314 | 1,748,604 |
| Steel piling | 89,748 | 86,337 | 112,067 | 109,705 | 107,013 |
| Plates- cut lengths | 958,537 | 937,518 | 1,175,461 | 1,096,424 | 1,106,904 |
| -in coils | 614,154 | 499,605 | 557,744 | ++ | ++ |
| Rails and track accessories | 132,614 | 157,411 | 268,493 | 227,869 | 266,084 |
| Wheels and axles | + | + | + | 18,120 | 9,626 |
| Bars-Hot rolled | 677,247 | 775,746 | 679,527 | 610,256 | 582,580 |
| -Shapes under 3" | 92,411 | 109,611 | 125,687 | 140,469 | 166,369 |
| -Concrete reinforcing | 147,883 | 233,735 | 357,253 | 351,632 | 454,735 |
| -Cold finished | 162,250 | 188,642 | 235,778 | 213,466 | 224,696 |
| Tool steel | 58,865 | 91,140 | 44,095 | 40,599 | 44,749 |
| Standard pipe | 951,585 | 806,325 | 964,039 | 859,204 | 697,034 |
| Oil country goods | 387,606 | 429,949 | 988,194 | 570,440 | 616,743 |
| Line pipe | 695,937 | 526,988 | 552,015 | 550,071 | 817,861 |
| Mechanical tubing | 186,243 | 281,059 | 381,682 | 283,619 | 237,247 |
| Pressure tubing | 38,044 | 44,944 | 50,908 | 26,528 | 23,981 |
| Stainless pipe & tubing | 47,221 | 37,259 | 38,532 | 28,231 | 35,653 |
| Nonclassified pipe & tubing | 9,629 | 12,612 | 28,429 | 23,332 | 28,524 |
| Structural pipe & tubing | 275,435 | 323,921 | 278,870 | 428,758 | 479,768 |
| Pipe for piling | 4,315 | 10,266 | +++ | +++ | +++ |
| Wire-Drawn | 432,340 | 494,308 | 552,780 | 568,407 | 594,433 |
| -Bale ties & baling wire | + | + | + | 1,719 | 696 |
| -Galvanized wire fencing | + | + | + | 13,172 | 11,509 |
| -Wire nails | + | + | + | 440,746 | 393,231 |
| -Barbed wire | + | + | + | 16,643 | 22,157 |
| Black Plate | 146,081 | 144,643 | 154,229 | 185,976 | 205,937 |
| Tin plate | 313,552 | 337,333 | 294,552 | 332,306 | 359,658 |
| Tin free steel | 114,046 | 114,903 | 97,460 | 101,172 | 110,569 |
| Sheets-Hot rolled | 2,281,717 | 1,898,494 | 2,206,599 | 2,515,178 | 2,395,926 |
| -Cold rolled | 2,048,666 | 1,876,999 | 2,105,755 | 2,244,958 | 2,692,824 |
| Sheets & strip-Galv.-hot dipped | 1,263,320 | 1,297,431 | 1,948,811 | 2,306,230 | 2,321,108 |
| -electrolytic | 385,960 | 327,813 | | | |
| -All other metallic coated | 192,493 | 235,830 | 248,111 | 323,706 | 209,730 |
| -Electrical | 76,164 | 85,329 | 73,960 | 69,824 | 81,703 |
| Strip-Hot rolled | 96,473 | 110,538 | 49,553 | 43,197 | 43,557 |
| -Cold rolled | 138,986 | 139,570 | 134,211 | 144,536 | 159,135 |
| Total Steel Mill Products | 17,168,620 | 17,320,978 | 20,890,893 | 20,414,493 | 20,692,316 |
| Carbon | 15,554,033 | 15,709,477 | 19,455,518 | 19,217,998 | 19,542,052 |
| Alloy | 1,233,927 | 1,259,056 | 1,119,418 | 902,082 | 855,078 |
| Stainless | 380,660 | 352,445 | 315,958 | 294,413 | 295,186 |

+Included in Other Steel Products. ++Included in Sheets Hot Rolled . +++Included in Structural Pipe & Tubing .

# Table 18 (continued)

## Imports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Other Steel Products: | | | | | |
| Structural shapes, fabricated | 95,565 | 185,421 | 238,267 | 274,712 | 424,966 |
| Shapes-Cold formed | 9,011 | 7,372 | 1,302 | 1,107 | 2,178 |
| Sashes and frames | 9,391 | 14,297 | 6,104 | 7,996 | 4,394 |
| Rails - used | 170,288 | 94,182 | ... | ... | ... |
| Railway track material+ | 8,717 | 6,669 | 205 | ... | ... |
| Wheels and axles+ | 35,338 | 58,873 | 50,734 | ... | ... |
| Fence or sign posts | 1,551 | 3,566 | 864 | 7,926 | 4,930 |
| Wire-Nonmetalic coated | 5,091 | 9,712 | 6,943 | 6,175 | 1,451 |
| Wire rope | 93,225 | 117,358 | 137,112 | 119,691 | 129,449 |
| Wire strand | 167,632 | 195,515 | 173,112 | 176,030 | 177,225 |
| Wire springs | 234,529 | 239,495 | ... | ... | ... |
| Woven wire fabric | 8,651 | 11,754 | 51,594 | 54,796 | 51,699 |
| Grill, netting & fencing+ | 54,362 | 70,258 | 11,879 | ... | ... |
| Nails and staples++ | 376,291 | 390,594 | 406,837 | 48,298 | 45,437 |
| Barbed wire+ | 15,350 | 12,440 | 15,538 | ... | ... |
| Bale ties & baling wire | 696 | 955 | 1,866 | 303 | 615 |
| Industrial fasteners | 722,023 | 752,357 | 710,370 | 692,844 | 638,325 |
| Architectural & ornamental work | 953 | 887 | ... | ... | ... |
| Chains & parts | 73,563 | 73,085 | ... | ... | ... |
| Cast steel rolls | 1,615 | 1,381 | ... | ... | ... |
| Grinding balls | 8,966 | 5,607 | 5,874 | 4,655 | 4,134 |
| Blanks, nonrectangular flat rolled | ... | ... | 139,732 | 84,076 | 47,822 |
| Conduit | 472 | 1,107 | 7,261 | 9,543 | 22,871 |
| Pipe & tube fittings | 138,869 | 124,796 | 132,215 | 102,019 | 106,848 |
| **Total Other Steel Products** | **2,232,147** | **2,377,681** | **2,097,811** | **1,590,170** | **1,662,344** |
| **Total Steel Products** | **19,400,767** | **19,698,659** | **22,988,704** | **22,004,663** | **22,354,660** |
| Iron Products & Ferroalloys: | | | | | |
| Bar iron, iron slabs and blooms, etc. | ... | ... | 10 | 181 | 127 |
| Cast iron tube, pipes, profiles & fittings | 22,531 | 32,661 | 28,195 | 23,739 | 21,931 |
| Malleable cast iron pipe fittings | 30,112 | 32,806 | 24,067 | 19,310 | 20,965 |
| Castings and forgings | 176,154 | 198,654 | 198,082 | 195,622 | 200,631 |
| Pig iron | 382,738 | 488,175 | 700,059 | 354,799 | 294,967 |
| Sponge iron | 423,820 | 249,122 | 194,367 | 61,992 | 97,585 |
| Ferroalloys | 1,445,935 | 1,355,992 | 1,525,769 | 1,176,061 | 1,246,935 |
| **Total Iron Products & Ferroalloys** | **2,481,290** | **2,357,411** | **2,670,548** | **1,831,704** | **1,883,140** |
| **Grand Total** | **21,882,058** | **22,056,070** | **25,659,253** | **23,836,367** | **24,237,800** |
| Iron and steel scrap | 1,423,673 | 1,119,522 | 1,037,822 | 842,976 | 723,564 |

+Prior to 1988 included in Steel Mill Products. ++Prior to 1988 part of the tonnage included in Steel Mill Products.

# Table 19

## Imports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|
| Steel Mill Products: | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 2,362,843 | 2,197,833 | 2,844,979 | 2,282,654 | 2,084,096 | 2,440,368 | 1,515,837 | 822,483 | 716,588 | 790,062 |
| Wire rods | 959,975 | 1,107,506 | 1,493,833 | 1,467,030 | 1,357,875 | 1,479,176 | 1,589,788 | 1,185,291 | 941,390 | 888,442 |
| Structural shapes and pilings | 916,027 | 1,485,716 | 1,959,354 | 1,888,019 | 1,855,617 | 2,118,518 | 2,155,625 | 1,558,275 | 1,598,340 | 2,075,508 |
| Plates | 1,572,691 | 1,437,123 | 1,733,205 | 1,096,424 | 1,106,904 | 1,377,921 | 1,538,495 | 1,103,199 | 1,619,527 | 2,447,688 |
| Rails and accessories | 132,614 | 157,411 | 268,493 | 245,989 | 275,710 | 382,045 | 373,890 | 159,353 | 340,272 | 318,569 |
| Bars and tool steel | 1,138,656 | 1,398,874 | 1,442,340 | 1,356,422 | 1,473,129 | 1,549,406 | 1,719,450 | 975,713 | 793,051 | 986,081 |
| Pipe and tubing | 2,596,015 | 2,473,323 | 3,282,669 | 2,770,183 | 2,936,811 | 4,463,668 | 5,421,713 | 2,862,061 | 5,249,948 | 6,568,556 |
| Wire and wire products | 432,340 | 494,308 | 552,780 | 1,040,687 | 1,022,026 | 1,055,821 | 1,178,715 | 872,187 | 625,303 | 723,975 |
| Tin mill products | 573,679 | 596,879 | 546,241 | 619,454 | 676,164 | 785,545 | 737,781 | 523,125 | 337,903 | 386,255 |
| Sheets and strip | 6,483,779 | 5,972,004 | 6,767,000 | 7,647,635 | 7,903,983 | 8,603,181 | 9,931,923 | 7,008,209 | 4,440,210 | 4,713,204 |
| Total Steel Mill Products | 17,168,620 | 17,320,978 | 20,890,893 | 20,414,493 | 20,692,316 | 24,255,651 | 26,163,218 | 17,069,895 | 16,662,532 | 19,898,340 |
| Other Steel Products | 2,232,147 | 2,377,681 | 2,097,811 | 1,590,170 | 1,662,344 | 1,601,783 | 1,510,189 | 1,068,782 | 1,025,177 | 1,080,715 |
| Total Steel Products | 19,400,767 | 19,698,659 | 22,988,704 | 22,004,663 | 22,354,660 | 25,857,434 | 27,673,407 | 18,138,677 | 17,687,709 | 20,979,055 |
| Iron Products and ferroalloys | 2,481,290 | 2,357,411 | 2,670,548 | 1,831,704 | 1,883,140 | 1,775,108 | 1,874,666 | 1,162,707 | 1,082,293 | 1,650,325 |
| Grand Total | 21,882,058 | 22,056,070 | 25,659,253 | 23,836,367 | 24,237,800 | 27,632,542 | 29,548,073 | 19,301,384 | 18,770,002 | 22,629,380 |

# Table 20

## Imports of Steel Mill Products

(Net Tons)

| Months | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|---|---|---|---|---|
| January | 1,430,429 | 1,783,963 | 1,818,462 | 1,499,757 | 1,748,205 | 2,661,496 | 2,081,905 | 1,097,621 | 1,968,663 | 1,281,332 |
| February | 1,110,915 | 1,335,795 | 1,916,336 | 1,851,641 | 2,042,595 | 2,047,766 | 2,160,912 | 1,156,903 | 1,600,300 | 1,234,087 |
| March | 1,120,243 | 1,216,100 | 1,844,159 | 1,807,351 | 1,963,629 | 2,028,519 | 2,225,055 | 1,113,127 | 1,355,969 | 1,141,878 |
| April | 1,313,040 | 1,341,139 | 1,533,249 | 1,522,164 | 1,597,645 | 1,908,639 | 2,215,824 | 1,182,177 | 1,029,288 | 1,760,883 |
| May | 1,455,803 | 1,472,225 | 1,936,103 | 1,898,451 | 1,625,683 | 1,954,680 | 1,997,669 | 1,352,954 | 1,695,850 | 1,772,326 |
| June | 1,466,413 | 1,549,428 | 1,978,649 | 1,696,596 | 1,732,361 | 2,360,744 | 1,775,968 | 1,296,840 | 1,783,632 | 1,665,347 |
| July | 1,591,310 | 1,457,876 | 1,613,714 | 1,722,931 | 2,059,421 | 1,577,020 | 2,655,913 | 1,410,816 | 1,113,031 | 1,663,042 |
| August | 1,629,182 | 1,530,914 | 1,782,918 | 1,623,670 | 1,529,357 | 2,028,485 | 2,515,952 | 1,617,273 | 1,450,515 | 2,226,364 |
| September | 1,381,357 | 1,400,016 | 1,648,473 | 1,600,123 | 1,586,335 | 2,539,131 | 2,181,795 | 1,521,966 | 1,190,779 | 1,747,583 |
| October | 1,512,707 | 1,713,940 | 1,552,624 | 1,650,893 | 1,359,103 | 1,302,521 | 1,985,702 | 1,755,164 | 1,145,847 | 1,871,511 |
| November | 1,598,343 | 1,491,318 | 1,846,332 | 1,812,419 | 1,926,933 | 1,699,656 | 2,208,978 | 1,835,197 | 1,258,423 | 1,921,117 |
| December | 1,552,299 | 1,028,263 | 1,419,874 | 1,728,500 | 1,521,047 | 2,146,995 | 2,157,543 | 1,729,858 | 1,090,494 | 1,612,870 |
| Total* | 17,168,620 | 17,320,978 | 20,890,893 | 20,414,493 | 20,692,316 | 24,255,651 | 26,163,218 | 17,069,895 | 16,662,532 | 19,898,340 |

*Totals include adjustments not shown in monthly figures.

# Table 21

## Imports of Steel Mill Products by Countries of Origin

(Net Tons)

| | 1990 | | | 1989 | | | 1988 | | | 1987 | | | 1986 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** | Net Tons | % Total | % U.S. Apparent Supply** |
| Canada | 2,873,467 | 16.7 | 3.0 | 2,974,940 | 17.2 | 3.1 | 3,172,825 | 15.2 | 3.1 | 3,670,139 | 18.0 | 3.8 | 3,203,059 | 15.5 | 3.6 |
| Mexico | 644,907 | 3.8 | 0.7 | 439,517 | 2.5 | 0.5 | 471,209 | 2.3 | 0.5 | 487,361 | 2.4 | 0.5 | 431,394 | 2.1 | 0.5 |
| Brazil | 1,471,905 | 8.6 | 1.5 | 1,380,058 | 8.0 | 1.4 | 1,369,041 | 6.6 | 1.3 | 1,103,094 | 5.4 | 1.1 | 1,098,164 | 5.3 | 1.2 |
| Argentina | 188,154 | 1.1 | 0.2 | 211,094 | 1.2 | 0.2 | 534,406 | 2.6 | 0.5 | 330,906 | 1.6 | 0.3 | 170,259 | 0.8 | 0.2 |
| Total Latin America | 2,589,299 | 15.1 | 2.6 | 2,252,333 | 13.0 | 2.3 | 2,602,348 | 12.5 | 2.5 | 2,181,926 | 10.7 | 2.3 | 1,962,877 | 9.5 | 2.2 |
| United Kingdom | 811,965 | 4.7 | 0.8 | 860,688 | 5.0 | 0.9 | 815,296 | 3.9 | 0.8 | 745,241 | 3.7 | 0.8 | 702,957 | 3.4 | 0.8 |
| Netherlands | 457,334 | 2.7 | 0.5 | 468,013 | 2.7 | 0.5 | 554,534 | 2.7 | 0.5 | 491,461 | 2.4 | 0.5 | 498,080 | 2.4 | 0.6 |
| Belgium-Luxembourg | 676,871 | 3.9 | 0.7 | 733,241 | 4.2 | 0.8 | 852,527 | 4.1 | 0.8 | 762,364 | 3.7 | 0.8 | 985,372 | 4.8 | 1.1 |
| France | 1,151,089 | 6.7 | 1.2 | 1,176,423 | 6.8 | 1.2 | 1,243,815 | 6.0 | 1.2 | 1,088,406 | 5.3 | 1.1 | 1,205,506 | 5.8 | 1.3 |
| West Germany | 1,577,544 | 9.2 | 1.6 | 1,542,699 | 8.9 | 1.6 | 1,880,037 | 9.0 | 1.8 | 1,775,706 | 8.7 | 1.9 | 2,011,542 | 9.7 | 2.2 |
| Italy | 372,579 | 2.2 | 0.4 | 298,866 | 1.7 | 0.3 | 326,215 | 1.6 | 0.3 | 303,450 | 1.5 | 0.3 | 456,491 | 2.2 | 0.5 |
| Spain | 323,138 | 1.9 | 0.3 | 46,573 | 2.7 | 0.5 | 467,000 | 2.2 | 0.5 | 499,812 | 2.4 | 0.5 | 611,708 | 3.0 | 0.7 |
| Total EEC* | 5,455,272 | 31.8 | 5.6 | 5,579,472 | 32.2 | 5.8 | 6,226,426 | 29.8 | 6.1 | 5,801,787 | 28.4 | 6.0 | 6,613,750 | 32.0 | 7.3 |
| Sweden | 291,965 | 1.7 | 0.3 | 251,827 | 1.5 | 0.3 | 571,135 | 2.7 | 0.6 | 607,107 | 3.0 | 0.6 | 548,065 | 2.6 | 0.6 |
| Finland | 219,724 | 1.3 | 0.2 | 214,032 | 1.2 | 0.2 | 212,867 | 1.0 | 0.2 | 174,548 | 0.9 | 0.2 | 199,285 | 1.0 | 0.2 |
| Austria | 142,230 | 0.8 | 0.1 | 81,804 | 0.5 | 0.1 | 136,799 | 0.7 | 0.1 | 119,232 | 0.6 | 0.1 | 132,096 | 0.6 | 0.1 |
| Turkey | 130,955 | 0.8 | 0.1 | 201,072 | 1.2 | 0.2 | 284,354 | 1.4 | 0.3 | 407,413 | 2.0 | 0.4 | ... | ... | ... |
| Total Europe | 6,455,444 | 37.6 | 6.6 | 6,647,965 | 38.4 | 6.9 | 8,024,561 | 38.4 | 7.8 | 7,626,415 | 37.3 | 8.0 | 8,051,876 | 38.9 | 8.9 |
| Japan | 3,114,961 | 18.2 | 3.2 | 3,652,850 | 21.1 | 3.8 | 4,290,289 | 20.5 | 4.2 | 4,321,042 | 21.2 | 4.5 | 4,422,244 | 21.4 | 4.9 |
| Korea Republic | 1,327,532 | 7.7 | 1.4 | 993,028 | 5.7 | 1.0 | 1,307,185 | 6.3 | 1.3 | 1,295,890 | 6.3 | 1.4 | 1,525,305 | 7.4 | 1.7 |
| China-Taiwan | 191,892 | 1.1 | 0.2 | 141,105 | 0.8 | 0.1 | 235,191 | 1.1 | 0.2 | 252,556 | 1.2 | 0.3 | 475,835 | 2.3 | 0.5 |
| Total Asia & Africa | 4,839,955 | 28.2 | 4.9 | 5,105,875 | 29.5 | 5.3 | 6,728,563 | 32.2 | 6.6 | 6,735,596 | 33.0 | 7.0 | 7,266,080 | 35.1 | 8.1 |
| Oceania | 410,455 | 2.4 | 0.4 | 339,865 | 2.0 | 0.4 | 362,597 | 1.7 | 0.3 | 200,417 | 1.0 | 0.2 | 208,423 | 1.0 | 0.2 |
| Total Imports of Steel Mill Products | 17,168,620 | 100.0 | 17.5 | 17,320,978 | 100.0 | 17.9 | 20,890,893 | 100.0 | 20.3 | 20,414,493 | 100.0 | 21.3 | 20,692,316 | 100.0 | 23.0 |

*Includes total for Denmark, Ireland, Greece and Portugal.
**As developed in table 1A of this Report.
Country detail may not add to regional total because of omissions of some countries.

# Table 22

## Imports of Iron and Steel Products by Countries of Origin–1990

(Net Tons)

| Products | Grand Total | Canada | Latin America | | | | |
|---|---|---|---|---|---|---|---|
| | | | Mexico | Vene-zuela | Brazil | Argen-tina | Total Latin Am. |
| Steel Mill Products: | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 2,362,843 | 215,306 | 236,011 | ... | 813,310 | 143 | 1,049,529 |
| Wire rods | 959,975 | 345,045 | 30,162 | 16,071 | 71,633 | 771 | 155,419 |
| Structural shapes (3" & over) | 826,279 | 227,295 | 26,407 | ... | 5,528 | 5,238 | 37,957 |
| Steel piling | 89,748 | 17,924 | ... | ... | ... | ... | ... |
| Plates- cut lengths | 958,537 | 108,280 | 41,520 | ... | 61,724 | ... | 103,256 |
| -in coils | 614,154 | 163,634 | 1,027 | 13,467 | 24,831 | 2,817 | 42,143 |
| Rails-standard | 71,484 | ... | ... | ... | ... | ... | ... |
| -all other | 59,641 | 270 | 49 | ... | ... | ... | 49 |
| Railroad accessories | 1,489 | 1,338 | ... | ... | ... | ... | ... |
| Bars-hot rolled | 677,247 | 237,027 | 4,988 | ... | 45,538 | 13,150 | 87,282 |
| -shapes under 3" | 92,411 | 68,438 | 2,156 | ... | 2,897 | 3,213 | 8,596 |
| -concrete reinforcing | 147,883 | 1,477 | 5,239 | 30,764 | 31,637 | ... | 82,232 |
| -cold finished | 162,250 | 37,829 | 830 | 1,718 | 7,834 | 6,167 | 16,641 |
| Tool steel | 58,865 | 7,224 | 230 | 313 | 2,577 | 149 | 3,269 |
| Standard pipe | 951,585 | 121,359 | 69,169 | 18,261 | 70,313 | 15,077 | 174,200 |
| Oil country goods | 387,606 | 10,371 | 19,599 | 1,100 | 1,147 | 45,377 | 67,223 |
| Line pipe | 695,937 | 28,609 | 41,266 | 26,732 | 27,861 | 34,625 | 130,483 |
| Mechanical tubing | 186,243 | 41,762 | 6,168 | 1,389 | 2,310 | 1,296 | 11,812 |
| Pressure tubing | 38,044 | 588 | 1,237 | 202 | 8,182 | 236 | 9,856 |
| Stainless pipe & tubing | 47,221 | 5,712 | 597 | ... | ... | 1 | 598 |
| Nonclassified pipe & tubing | 9,629 | 2,108 | ... | 336 | ... | ... | 336 |
| Structural pipe & tubing | 275,435 | 193,422 | 2,696 | ... | 1,504 | 249 | 4,669 |
| Pipe for piling | 4,315 | 1,884 | ... | ... | ... | 37 | 37 |
| Wire-drawn | 432,340 | 163,147 | 3,259 | 6,092 | 8,950 | 11,209 | 30,867 |
| Black Plate | 146,081 | 3,480 | ... | 4,616 | 444 | 2,741 | 7,801 |
| Tin plate | 313,552 | 57,652 | ... | ... | 3,930 | ... | 3,930 |
| Tin free | 114,046 | 9,477 | ... | ... | 108 | ... | 108 |
| Sheets-hot rolled | 2,281,717 | 404,910 | 5,960 | 28,289 | 110,866 | 5,272 | 150,387 |
| -cold rolled | 2,048,666 | 100,374 | 34,139 | 32,602 | 137,299 | 25,068 | 229,107 |
| Sheets & strip-galv.-hot dipped | 1,263,320 | 147,755 | 58,826 | 18,109 | 21,611 | 12,226 | 112,042 |
| -electrolytic | 385,960 | 22,094 | 50,180 | 435 | 326 | 2,490 | 53,496 |
| -all other metallic coated | 192,493 | 10,161 | 113 | ... | ... | ... | 389 |
| -electrical | 76,164 | 5,086 | ... | ... | 1,107 | ... | 1,107 |
| Strip-hot rolled | 96,473 | 68,604 | 2,538 | 1,102 | 854 | 603 | 5,101 |
| -cold rolled | 138,986 | 43,827 | 543 | 1,247 | 7,586 | ... | 9,376 |
| Total Steel Mill Products | 17,168,620 | 2,873,467 | 644,907 | 202,847 | 1,471,905 | 188,154 | 2,589,299 |
| Carbon | 15,554,033 | 2,609,004 | 582,823 | 201,969 | 1,395,024 | 170,045 | 2,431,309 |
| Alloy | 1,233,927 | 221,642 | 38,831 | 839 | 69,460 | 18,094 | 127,240 |
| Stainless | 380,660 | 42,821 | 23,253 | 40 | 7,422 | 15 | 30,750 |

Country detail may not add to regional total because of omissions of some countries.

# Table 22 (continued)

## Imports of Iron and Steel Products by Country of Origin -1990

(Net Tons)

| Products | Europe | | | | | | | | | | | | | Total Other Europe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | European Economic Community | | | | | | | | | | | | | |
| | United Kingdom | Fed. Rep. Germany | Nether-lands | Belgium | Luxem-bourg | France | Spain | Italy | Total E.E.C.* | Sweden | Finland | Austria | Turkey | |
| **Steel Mill Products:** | | | | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 300,808 | 238,276 | 60,500 | 88,310 | 4,427 | 122,971 | 7,502 | 50,128 | 872,921 | 76,910 | 6,383 | 2 | ... | 83,897 |
| Wire rods | 7,393 | 7,684 | 23 | 111 | 14,145 | 80,585 | 40,075 | 2,484 | 154,442 | 5,205 | ... | ... | 89,833 | 106,976 |
| Structural shapes (3" & over) | 147,171 | 15,494 | 1,569 | 39,786 | 130,863 | 24,990 | 92,889 | 429 | 453,206 | 437 | 11 | 62 | ... | 16,497 |
| Steel piling | 9,354 | 16,457 | ... | 2,585 | 29,434 | 13,915 | 80 | ... | 71,825 | ... | ... | ... | ... | ... |
| Plates- cut lengths | 48,924 | 62,425 | 317 | 124,360 | ... | 18,753 | 68,162 | 13,424 | 343,060 | 113,075 | 83,855 | 433 | ... | 289,138 |
| -in coils | 7,163 | 85,924 | 29,374 | 14,399 | ... | 171,461 | 718 | 11,409 | 320,448 | 6,514 | 34,000 | 1,937 | ... | 53,259 |
| Rails-standard | 6,999 | 4,935 | ... | 2 | 15,801 | 247 | ... | ... | 27,983 | ... | ... | 967 | ... | 969 |
| -all other | 2,599 | 4,446 | ... | 111 | 4,305 | 197 | ... | ... | 11,657 | 223 | ... | 4,702 | ... | 4,925 |
| Railroad accessories | ... | 138 | ... | ... | 9 | 1 | ... | 2 | 151 | ... | ... | ... | ... | ... |
| Bars-hot rolled | 135,251 | 48,770 | 3,322 | 182 | 925 | 39,741 | 7,711 | 1,050 | 236,953 | 5,292 | 10 | 270 | 500 | 8,015 |
| -shapes under 3" | 1,707 | 499 | 143 | 420 | 414 | 15 | 35 | 562 | 3,811 | 1,284 | ... | 42 | ... | 1,464 |
| -concrete reinforcing | ... | 11 | ... | ... | ... | ... | ... | 42 | 53 | ... | ... | ... | 31,470 | 31,473 |
| -cold finished | 26,925 | 4,589 | 215 | 278 | ... | 28,497 | 12,779 | 1,407 | 74,887 | 1,491 | 2,786 | 172 | ... | 5,023 |
| Tool steel | 2,085 | 9,721 | 287 | 58 | ... | 2,156 | 14 | 3,550 | 17,871 | 14,265 | ... | 2,811 | ... | 17,367 |
| Standard pipe | 8,355 | 43,051 | 5,669 | 3,063 | 3,581 | 11,666 | 9,890 | 16,120 | 102,099 | 2,594 | ... | 22 | 5,178 | 38,186 |
| Oil country goods | 1,427 | 78,887 | ... | 66 | ... | 2,707 | 12,561 | 24,342 | 130,651 | 163 | 1,421 | 22,196 | 503 | 25,870 |
| Line pipe | 5,626 | 109,375 | 20 | 5,087 | ... | 50,862 | 2,213 | 71,923 | 256,477 | ... | ... | 9,949 | ... | 10,008 |
| Mechanical tubing | 3,021 | 32,092 | 259 | 617 | 825 | 2,830 | 8,659 | 3,208 | 51,511 | 12,389 | 393 | 1 | 2,226 | 15,875 |
| Pressure tubing | 310 | 6,771 | 2 | 12 | 13 | 9,269 | 414 | 1,158 | 18,626 | 1,691 | 2 | 55 | ... | 1,748 |
| Stainless pipe & tubing | 724 | 6,885 | 412 | 13 | ... | 1,561 | 2,084 | 2,845 | 14,525 | 3,225 | ... | 929 | ... | 4,161 |
| Nonclassified pipe & tubing | 2 | 92 | 25 | ... | ... | 2 | ... | ... | 121 | ... | ... | ... | ... | 4 |
| Structural pipe & tubing | 184 | 5,741 | ... | 1,083 | ... | 5,750 | ... | 47 | 12,805 | 50 | 1,371 | ... | 1,103 | 2,601 |
| Pipe for piling | 942 | 48 | ... | ... | ... | ... | ... | ... | 990 | ... | ... | ... | ... | ... |
| Wire-drawn | 21,322 | 14,480 | 1,189 | 46,427 | 3,335 | 31,822 | 635 | 2,548 | 121,758 | 9,292 | 660 | 1,614 | 142 | 13,790 |
| Black Plate | 80 | 3,781 | 8,155 | 4,675 | ... | 3,876 | ... | ... | 34,945 | ... | ... | ... | ... | ... |
| Tin plate | 85 | 40,141 | 10,591 | 1,696 | ... | 26,089 | 2,346 | ... | 80,949 | ... | ... | ... | ... | 14,291 |
| Tin free | 37 | 27,382 | 738 | 15 | ... | 5,183 | ... | ... | 33,356 | ... | ... | ... | ... | ... |
| Sheets-hot rolled | 10,153 | 220,695 | 186,277 | 23,509 | ... | 283,043 | 849 | 84,014 | 808,760 | 8,196 | 35,650 | 5,710 | ... | 64,791 |
| -cold rolled | 43,684 | 292,646 | 148,063 | 100,281 | 211 | 143,144 | 39,036 | 43,870 | 821,252 | 4,488 | 26,540 | 87,611 | ... | 130,376 |
| Sheets & strip-galv.-hot dipped | 7,987 | 79,034 | ... | 9,008 | ... | 48,897 | 13,075 | 21,470 | 206,819 | 11,100 | 26,304 | ... | ... | 40,737 |
| -electrolytic | 2,132 | 70,885 | ... | ... | ... | 2,185 | 1,032 | 22 | 76,256 | ... | 110 | ... | ... | 110 |
| -all other metallic coated | 1,039 | 8,464 | 1 | 627 | ... | 9,320 | ... | 1,977 | 21,428 | ... | ... | 348 | ... | 348 |
| -electrical | 2,048 | 7,045 | 22 | ... | ... | 1,664 | ... | 10,900 | 21,679 | 9,844 | ... | ... | ... | 10,618 |
| Strip-hot rolled | 92 | 3,898 | ... | 78 | ... | 65 | ... | 3,022 | 7,155 | 3 | ... | 2,277 | ... | 2,280 |
| -cold rolled | 6,338 | 26,782 | 161 | 1,724 | 1 | 7,625 | 380 | 831 | 43,846 | 4,234 | 227 | 173 | ... | 5,374 |
| Total Steel Mill Products | 811,965 | 1,577,544 | 457,334 | 468,582 | 208,289 | 1,151,089 | 323,138 | 372,787 | 5,455,272 | 291,965 | 219,724 | 142,230 | 130,955 | 1,000,172 |
| Carbon | 699,824 | 1,443,663 | 441,764 | 454,064 | 196,666 | 1,094,497 | 271,640 | 311,734 | 4,972,858 | 191,726 | 193,721 | 124,984 | 130,955 | 852,250 |
| Alloy | 82,649 | 111,392 | 14,947 | 11,453 | 11,623 | 45,965 | 17,815 | 48,653 | 344,901 | 67,238 | 10,193 | 16,047 | ... | 97,451 |
| Stainless | 29,491 | 22,489 | 623 | 3,065 | ... | 10,627 | 33,684 | 12,400 | 137,514 | 33,002 | 15,810 | 1,199 | ... | 50,470 |

*Includes total for Ireland, Denmark, Greece, & Portugal

# Table 22 (continued)

## Imports of Iron and Steel Products by Country of Origin–1990

(Net Tons)

| Products | Asia | | | | | Oceania | | Africa |
|---|---|---|---|---|---|---|---|---|
| | Peoples Republic of China | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Total Africa |
| **Steel Mill Products:** | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 12 | 156 | 22 | 11,253 | 11,444 | 129,748 | 129,748 | ... |
| Wire rods | 79 | 869 | 1,471 | 180,329 | 188,043 | 9,963 | 10,050 | ... |
| Structural shapes (3" & over) | 19 | 1,849 | 369 | 88,816 | 91,284 | 40 | 40 | ... |
| Steel piling | ... | ... | ... | ... | ... | ... | ... | ... |
| Plates- cut lengths | ... | 21,361 | ... | 26,244 | 109,921 | 3,385 | 4,864 | 17 |
| -in coils | ... | 15,861 | ... | 9,166 | 25,026 | 305 | 9,644 | ... |
| Rails-standard | ... | 689 | ... | 41,842 | 42,531 | ... | ... | ... |
| -all other | ... | 2,197 | ... | 40,543 | 42,741 | ... | ... | ... |
| Railroad accessories | ... | ... | ... | ... | ... | ... | ... | ... |
| Bars-hot rolled | 4,608 | 6,233 | 130 | 86,060 | 106,958 | 996 | 996 | 17 |
| -shapes under 3" | ... | 5,183 | 81 | 4,836 | 10,100 | ... | 2 | ... |
| -concrete reinforcing | ... | 26,557 | 14 | ... | 32,648 | ... | ... | ... |
| -cold finished | 909 | 3,741 | 223 | 19,288 | 27,866 | 4 | 4 | ... |
| Tool steel | 74 | 704 | ... | 11,701 | 12,598 | 537 | 537 | ... |
| Standard pipe | ... | 304,925 | 56,469 | 105,368 | 510,967 | ... | 279 | 4,495 |
| Oil country goods | ... | 20,561 | 759 | 131,044 | 153,491 | ... | ... | ... |
| Line pipe | ... | 28,495 | 2,334 | 221,515 | 264,766 | 4,878 | 4,878 | 715 |
| Mechanical tubing | ... | 6,598 | 14,596 | 40,958 | 64,553 | 673 | 732 | ... |
| Pressure tubing | ... | 294 | 459 | 6,252 | 7,226 | ... | ... | ... |
| Stainless pipe & tubing | 486 | 3,470 | 8,216 | 8,787 | 22,225 | 1 | 1 | ... |
| Nonclassified pipe & tubing | ... | 3,919 | 25 | 2,425 | 6,369 | 690 | 690 | ... |
| Structural pipe & tubing | ... | 8,824 | 2,629 | 32,636 | 61,509 | 287 | 326 | 103 |
| Pipe for piling | ... | 915 | 214 | 150 | 1,404 | ... | ... | ... |
| Wire-drawn | 8,228 | 4,622 | 8,928 | 66,876 | 97,846 | 4,850 | 4,894 | 39 |
| Black Plate | ... | ... | ... | 98,976 | 98,976 | 879 | 879 | ... |
| Tin plate | ... | 2,235 | ... | 149,443 | 151,678 | 5,052 | 5,052 | ... |
| Tin free | ... | 510 | ... | 70,595 | 71,105 | ... | ... | ... |
| Sheets-hot rolled | ... | 604,251 | ... | 212,514 | 816,765 | 5 | 36,103 | ... |
| -cold rolled | 12 | 126,360 | 59,138 | 519,098 | 714,044 | 21,301 | 53,513 | ... |
| Sheets & strip-galv.-hot dipped | 72 | 94,139 | 34,324 | 533,312 | 662,043 | 74,820 | 93,925 | ... |
| -electrolytic | ... | 28,191 | 103 | 199,982 | 228,276 | 1,045 | 5,727 | ... |
| -all other metallic coated | ... | 1,891 | 121 | 112,588 | 114,600 | 45,359 | 45,566 | ... |
| -electrical | ... | 213 | ... | 37,461 | 37,674 | ... | ... | ... |
| Strip-hot rolled | ... | 1,555 | ... | 11,730 | 13,285 | 47 | 47 | ... |
| -cold rolled | ... | 161 | 1,267 | 33,174 | 34,605 | 1,958 | 1,958 | ... |
| Total Steel Mill Products | 14,498 | 1,327,532 | 191,892 | 3,114,961 | 4,834,568 | 306,823 | 410,455 | 5,387 |
| Carbon | 13,879 | 1,307,022 | 182,216 | 2,596,691 | 4,277,972 | 301,869 | 405,379 | 5,260 |
| Alloy | 133 | 2,862 | 589 | 433,526 | 437,518 | 4,935 | 5,048 | 127 |
| Stainless | 486 | 17,648 | 9,087 | 84,744 | 119,077 | 19 | 28 | ... |

# Table 22A

## Imports of Iron and Steel Products by Countries of Origin–1990

(Net Tons)

| Products | Grand Total | Canada | Latin America | | | | |
|---|---|---|---|---|---|---|---|
| | | | Mexico | Vene-zuela | Brazil | Argen-tina | Total Latin Am. |
| **Other Steel Products:** | | | | | | | |
| Structural shapes, fabricated | 95,565 | 32,691 | 9,355 | 114 | 611 | 5 | 10,206 |
| Shapes-Cold formed | 9,011 | 762 | 935 | 69 | 370 | 110 | 1,483 |
| Sashes and frames | 9,391 | 6,563 | 1,521 | ... | ... | 1 | 1,558 |
| Rails - used | 170,288 | 167,418 | ... | ... | ... | ... | ... |
| Railway track material | 8,717 | 3,608 | 34 | ... | ... | ... | 34 |
| Wheels and axles | 35,338 | 27,373 | 10 | ... | 1,336 | ... | 1,346 |
| Fence or sign posts | 1,551 | 196 | 25 | 3 | 1 | ... | 30 |
| Wire-Nonmetalic coated | 5,091 | 364 | ... | ... | 635 | 7 | 644 |
| Wire rope | 93,225 | 5,399 | 4,475 | 10 | 2,415 | 1,627 | 9,055 |
| Wire strand | 167,632 | 6,625 | 4,921 | ... | 4,061 | 12,946 | 21,942 |
| Wire springs | 234,529 | 162,492 | 31,922 | 3,565 | 3,012 | 3,490 | 42,208 |
| Woven wire fabric | 8,651 | 548 | 1,782 | ... | 39 | 1 | 1,821 |
| Grill, netting & fencing | 54,362 | 12,836 | 21,133 | 10,881 | 264 | ... | 32,698 |
| Nails and staples | 376,291 | 77,913 | 3,138 | 1,850 | 33 | 13 | 16,303 |
| Barbed wire | 15,350 | 223 | 3,042 | 724 | 7,681 | ... | 12,469 |
| Bale ties & baling wire | 696 | 542 | ... | ... | ... | ... | ... |
| Industrial fasteners | 722,023 | 127,446 | 10,888 | 351 | 2,969 | 120 | 14,434 |
| Architectural & ornamental work | 953 | 69 | 137 | 96 | ... | 1 | 234 |
| Chains & parts | 73,563 | 5,173 | 279 | ... | 2 | 1 | 312 |
| Cast steel rolls | 1,615 | 51 | 61 | ... | 79 | ... | 140 |
| Grinding balls | 8,966 | 7,251 | ... | ... | 5 | ... | 42 |
| Conduit | 472 | 4 | 22 | 400 | ... | ... | 421 |
| Pipe & tube fittings | 138,869 | 6,099 | 7,483 | 6,375 | 5,031 | 1,026 | 19,916 |
| Total Other Steel Products | 2,232,146 | 651,646 | 101,163 | 24,437 | 28,542 | 19,348 | 187,295 |
| Total Steel Products | 19,400,767 | 3,525,113 | 746,070 | 227,284 | 1,500,447 | 207,502 | 2,776,594 |
| **Iron Products & Ferroalloys:** | | | | | | | |
| Cast iron tube, pipes, profiles & fittings | 22,531 | 1,105 | 2,416 | 924 | 61 | ... | 3,402 |
| Malleable cast iron pipe fittings | 30,112 | 97 | 53 | 7 | 3,206 | 5 | 3,271 |
| Castings and forgings | 176,154 | 12,842 | 12,995 | 199 | 12,681 | 1,072 | 27,294 |
| Pig iron | 382,738 | 137,722 | 1 | ... | 241,451 | ... | 241,452 |
| Sponge iron | 423,820 | 43,700 | 6 | 277,403 | 394 | ... | 277,802 |
| Ferroalloys | 1,445,935 | 66,407 | 90,263 | 41,971 | 131,993 | 23,927 | 319,745 |
| Total Iron Products & Ferroalloys | 2,481,290 | 261,873 | 105,734 | 320,505 | 389,785 | 25,004 | 872,966 |
| Grand Total | 21,882,058 | 3,786,986 | 851,804 | 547,789 | 1,890,232 | 232,506 | 3,649,560 |
| Iron and steel scrap | 1,423,673 | 1,174,962 | 70,112 | 12,877 | 1,369 | ... | 91,814 |

Country detail may not add to regional total because of omissions of some countries.

# Table 22A (continued)

## Imports of Iron and Steel Products by Country of Origin -1990

(Net Tons)

| Products | Europe | | | | | | | | | | | | | Total Other Europe |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | European Economic Community | | | | | | | | | | | | | |
| | United Kingdom | Fed. Rep. Germany | Nether-lands | Belgium | Luxem-bourg | France | Spain | Italy | Total E.E.C.* | Sweden | Finland | Austria | Turkey | |
| Other Steel Products: | | | | | | | | | | | | | | |
| Structural shapes, fabricated | 6,430 | 1,484 | 182 | 177 | 161 | 539 | 104 | 635 | 9,934 | 832 | ... | 21 | ... | 1,524 |
| Shapes-Cold formed | 120 | 2,261 | ... | 1 | ... | ... | 66 | 106 | 2,553 | 224 | ... | 191 | ... | 561 |
| Sashes and frames | 27 | 93 | 6 | ... | ... | 3 | ... | 96 | 229 | 22 | ... | ... | ... | 116 |
| Rails - used | ... | 2,689 | ... | ... | ... | ... | ... | ... | 2,689 | ... | ... | ... | ... | ... |
| Railway track material | 239 | 241 | 22 | 82 | 40 | 59 | ... | ... | 684 | ... | ... | 641 | ... | 649 |
| Wheels and axles | 35 | 355 | ... | ... | 1 | 6 | ... | 495 | 892 | 11 | ... | ... | ... | 41 |
| Fence or sign posts | 50 | 24 | 2 | 15 | ... | 4 | 13 | 1 | 111 | 45 | ... | ... | ... | 46 |
| Wire-Nonmetalic coated | 635 | ... | 89 | 3,011 | ... | 125 | ... | 156 | 4,015 | ... | ... | ... | ... | ... |
| Wire rope | 1,468 | 2,017 | 1,290 | 3,260 | ... | 6,355 | 326 | 3,778 | 19,247 | ... | 2 | 101 | 935 | 1,943 |
| Wire strand | 1,334 | 7,590 | 156 | 16,889 | 5,853 | 7,731 | 9,348 | 13,967 | 62,896 | 26 | ... | 432 | 2,185 | 2,772 |
| Wire springs | 747 | 6,580 | 55 | 117 | ... | 118 | 2 | 421 | 8,049 | 41 | 2 | 41 | ... | 326 |
| Woven wire fabric | 240 | 844 | 189 | 62 | ... | 19 | 48 | 33 | 1,586 | ... | 2 | 13 | ... | 46 |
| Grill, netting & fencing | 1,335 | 256 | 268 | 340 | ... | 1 | 628 | 489 | 3,344 | 3 | ... | ... | ... | 6 |
| Nails and staples | 1,053 | 3,858 | 125 | 120 | ... | 2,154 | 12,966 | 356 | 20,641 | 2,040 | 3 | 2,569 | 10,207 | 28,653 |
| Barbed wire | 22 | ... | ... | 20 | 346 | ... | 7 | 3 | 398 | ... | ... | ... | ... | 1,219 |
| Bale ties & baling wire | 4 | 1 | 2 | 16 | ... | ... | ... | 4 | 30 | 9 | ... | 65 | ... | 74 |
| Industrial fasteners | 1,654 | 13,939 | 4,586 | 294 | 1 | 1,096 | 400 | 11,893 | 34,237 | 1,315 | 1,416 | 426 | ... | 12,305 |
| Architectural & ornamental work | 7 | 3 | ... | ... | ... | 152 | ... | 7 | 170 | ... | ... | ... | ... | ... |
| Chains & parts | 1,555 | 7,214 | 157 | 1,063 | ... | 680 | 267 | 4,002 | 15,023 | 641 | 180 | 552 | 84 | 4,812 |
| Cast steel rolls | 112 | 128 | ... | 51 | ... | 351 | 83 | 64 | 789 | ... | ... | 134 | ... | 134 |
| Grinding balls | 1 | 167 | 24 | ... | ... | ... | ... | 1,327 | 1,519 | 10 | 5 | ... | ... | 15 |
| Conduit | ... | ... | ... | ... | ... | ... | ... | ... | 1 | 3 | ... | ... | ... | 3 |
| Pipe & tube fittings | 3,306 | 8,613 | 149 | 22 | ... | 7,046 | 229 | 9,771 | 29,215 | 29 | 1 | 651 | ... | 2,736 |
| Total Other Steel Products | 20,374 | 58,358 | 7,302 | 25,540 | 6,402 | 26,439 | 24,487 | 47,605 | 218,252 | 5,253 | 1,611 | 5,838 | 13,412 | 57,981 |
| Total Steel Products | 832,339 | 1,635,902 | 464,636 | 494,122 | 214,691 | 1,177,528 | 347,625 | 420,392 | 5,673,524 | 297,218 | 221,335 | 148,068 | 144,367 | 1,058,153 |
| Iron Products & Ferroalloys: | | | | | | | | | | | | | | |
| Cast iron tube, pipes, profiles & fittings | 146 | 39 | 2 | ... | ... | 33 | ... | 11 | 231 | 3 | ... | ... | ... | 19 |
| Malleable cast iron pipe fittings | 431 | 50 | 24 | 2 | ... | 80 | 3 | 24 | 637 | ... | ... | ... | ... | 131 |
| Castings and forgings | 2,272 | 5,032 | 285 | 52 | ... | 2,720 | 1,729 | 19,999 | 32,573 | 16 | 18 | 5 | ... | 915 |
| Pig iron | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | 3,312 |
| Sponge iron | 279 | 479 | 4 | 20 | ... | 29 | ... | 56 | 867 | 259 | ... | 39 | ... | 88,272 |
| Ferroalloys | 6,456 | 32,837 | 144 | 218 | ... | 130,465 | 5,271 | 4,557 | 180,214 | 13,509 | 26,845 | 624 | 49,957 | 294,113 |
| Total Iron Products & Ferroalloys | 9,584 | 38,438 | 459 | 292 | ... | 133,328 | 7,003 | 24,648 | 214,523 | 13,787 | 26,863 | 668 | 49,957 | 386,762 |
| Grand Total | 841,923 | 1,674,340 | 465,095 | 494,414 | 214,691 | 1,310,856 | 354,628 | 445,040 | 5,888,047 | 311,005 | 248,198 | 148,736 | 194,324 | 1,444,915 |
| Iron and steel scrap | 31,251 | 1,026 | 895 | ... | ... | 130 | ... | 1 | 33,395 | 9,731 | ... | ... | ... | 10,022 |

*Includes total for Ireland, Denmark, Greece, & Portugal

# Table 22A (continued)

## Imports of Iron and Steel Products by Country of Origin–1990

(Net Tons)

| Products | Asia | | | | | Oceania | | Africa |
|---|---|---|---|---|---|---|---|---|
| | Peoples Republic of China | Korea Republic | China Taiwan | Japan | Total Asia | Australia | Total Oceania | Total Africa |
| Other Steel Products: | | | | | | | | |
| Structural shapes, fabricated | 1,458 | 6,298 | 1,602 | 25,867 | 39,762 | 1 | 1,449 | ... |
| Shapes-Cold formed | ... | ... | 3,394 | 249 | 3,651 | ... | ... | ... |
| Sashes and frames | 503 | 101 | 45 | 8 | 925 | ... | ... | ... |
| Rails - used | ... | ... | ... | 174 | 174 | 7 | 7 | ... |
| Railway track material | ... | 4 | 55 | 45 | 104 | 3,637 | 3,637 | ... |
| Wheels and axles | 6 | 21 | 56 | 4,298 | 4,381 | 13 | 13 | 1,290 |
| Fence or sign posts | 87 | 321 | 649 | 34 | 1,163 | 4 | 4 | ... |
| Wire-Nonmetalic coated | ... | ... | 62 | 5 | 68 | ... | ... | ... |
| Wire rope | 3,364 | 42,770 | 1,742 | 6,165 | 56,836 | 33 | 690 | 55 |
| Wire strand | 380 | 22,183 | 920 | 46,140 | 73,319 | ... | 34 | 44 |
| Wire springs | 2,189 | 859 | 1,082 | 10,935 | 20,492 | 11 | 29 | 934 |
| Woven wire fabric | 438 | 484 | 383 | 3,241 | 4,580 | ... | 69 | ... |
| Grill, netting & fencing | 3,611 | 539 | 309 | 160 | 4,728 | ... | 749 | ... |
| Nails and staples | 34,839 | 121,076 | 11,862 | 13,037 | 232,055 | 4 | 264 | 462 |
| Barbed wire | 39 | 753 | 1 | ... | 930 | ... | 111 | 1 |
| Bale ties & baling wire | ... | ... | 42 | 8 | 51 | ... | ... | ... |
| Industrial fasteners | 67,695 | 43,237 | 281,429 | 122,910 | 532,707 | 621 | 632 | 262 |
| Architectural & ornamental work | 53 | ... | 397 | ... | 463 | ... | 18 | ... |
| Chains & parts | 13,756 | 2,368 | 15,952 | 14,637 | 48,099 | 9 | 9 | 134 |
| Cast steel rolls | 17 | 41 | ... | 444 | 502 | ... | ... | ... |
| Grinding balls | ... | ... | 60 | 70 | 139 | ... | ... | ... |
| Conduit | ... | 13 | ... | 30 | 43 | ... | ... | ... |
| Pipe & tube fittings | 46,369 | 4,734 | 4,782 | 8,051 | 80,881 | 19 | 21 | ... |
| Total Other Steel Products | 174,805 | 245,801 | 324,824 | 256,509 | 1,106,054 | 4,359 | 7,737 | 3,181 |
| Total Steel Products | 189,303 | 1,573,333 | 516,716 | 3,371,470 | 5,940,622 | 311,182 | 418,192 | 8,568 |
| Iron Products & Ferroalloys: | | | | | | | | |
| Cast iron tube, pipes, profiles & fittings | 8,719 | 400 | 6,725 | 46 | 17,775 | ... | ... | ... |
| Malleable cast iron pipe fittings | 8,903 | 1,595 | 607 | 2,817 | 25,970 | ... | 5 | 1 |
| Castings and forgings | 30,235 | 5,583 | 7,508 | 1,872 | 102,514 | ... | ... | 15 |
| Pig iron | ... | ... | ... | 31 | 251 | ... | ... | ... |
| Sponge iron | 195 | ... | ... | 12,983 | 13,178 | ... | ... | ... |
| Ferroalloys | 18,352 | | 49 | 8,698 | 46,777 | 62,521 | 76,436 | 462,244 |
| Total Iron Products & Ferroalloys | 66,404 | 7,579 | 14,889 | 26,447 | 206,465 | 62,522 | 76,442 | 462,260 |
| Grand Total | 255,707 | 1,580,912 | 531,605 | 3,397,917 | 6,147,087 | 373,704 | 494,634 | 470,828 |
| Iron and steel scrap | 1,194 | 2,195 | 2 | 73,979 | 113,459 | 22 | 22 | ... |

# Table 23

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | Grand Total | ATLANTIC COAST | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Boston | Providence | New York City | Philadelphia | Baltimore Wash.,DC | Norfolk | Wilmington | Charleston | Savannah | Tampa | Miami | Total |
| **Steel Mill Products:** | | | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 2,362,842 | 349 | ... | 125,880 | 45,000 | 19,192 | 21 | 1 | 1,236 | 1,962 | 41 | ... | 193,682 |
| Wire rods | 959,977 | 9,590 | 3,257 | 9,409 | 22,077 | 4,382 | 1,784 | 1,842 | 9,981 | 59,305 | 60,317 | 2,698 | 184,642 |
| Structural shapes (3" & over) | 826,279 | 27,114 | 1,965 | 16,942 | 43,361 | 6,963 | 627 | 14,177 | 131 | 24,045 | 9,862 | 1,469 | 146,656 |
| Steel piling | 89,748 | 1,714 | 4,136 | 497 | ... | 3,380 | ... | 923 | ... | 5,425 | 4,359 | 3,798 | 24,232 |
| Plates- cut lengths | 958,537 | 39,129 | 1,076 | 1,934 | 32,656 | 6,199 | 122 | 11,043 | 1,639 | 28,911 | 20,545 | 1,158 | 144,412 |
| -in coils | 614,154 | 2,002 | ... | 2,070 | 37,288 | 3,446 | 581 | 11,172 | 4,376 | 2,646 | 16,753 | 131 | 80,465 |
| Rails-standard | 71,484 | ... | ... | ... | 585 | 19 | ... | ... | ... | 2 | ... | 47 | 653 |
| -all other | 59,641 | 83 | ... | 7 | 2,399 | 176 | 31 | 65 | ... | 616 | 17,252 | ... | 20,629 |
| Railroad accessories | 1,489 | ... | ... | 1 | 2 | 138 | ... | ... | ... | ... | ... | ... | 141 |
| Bars-hot rolled | 677,247 | 3,633 | 646 | 5,789 | 16,648 | 15,542 | 248 | 6,777 | 508 | 12,207 | 5,408 | 1,414 | 68,820 |
| -shapes under 3" | 92,411 | 159 | 31 | 618 | 2,375 | 654 | 179 | 165 | 15 | 2,315 | 480 | 61 | 7,052 |
| -concrete reinforcing | 147,883 | 1,524 | ... | 1,219 | 4,035 | ... | ... | ... | ... | ... | 1,431 | 1,754 | 9,963 |
| -cold finished | 162,250 | 2,323 | 55 | 11,046 | 10,026 | 3,146 | 787 | 3,014 | 1,242 | 3,243 | 186 | 809 | 35,877 |
| Tool steel | 58,865 | 9,865 | 845 | 5,116 | 2,557 | 10,455 | 862 | 217 | 4,140 | 4,312 | ... | 41 | 38,410 |
| Standard pipe | 951,585 | 10,600 | 418 | 1,273 | 76,583 | 5,802 | 347 | 5,698 | 2,250 | 35,949 | 43,124 | 2,170 | 184,214 |
| Oil country goods | 387,606 | 4 | ... | 161 | 14 | 320 | ... | ... | 12 | 75 | 12 | ... | 598 |
| Line pipe | 695,937 | ... | ... | 22 | 11,110 | 280 | 9 | ... | 22 | 4,019 | 100,197 | 339 | 115,998 |
| Mechanical tubing | 186,243 | 249 | 270 | 1,976 | 6,622 | 11,201 | 233 | 53 | 3,934 | 4,883 | 929 | 702 | 31,052 |
| Pressure tubing | 38,044 | 680 | ... | 170 | 9,862 | 1,170 | 265 | 459 | 112 | 2,734 | ... | 120 | 15,572 |
| Stainless pipe & tubing | 47,221 | 40 | ... | 3,545 | 5,822 | 6,175 | 5 | 24 | 270 | 1,249 | 965 | 70 | 18,165 |
| Nonclassified pipe & tubing | 9,629 | 19 | ... | ... | 89 | 4 | ... | 269 | ... | 202 | 966 | ... | 1,549 |
| Structural pipe & tubing | 275,435 | 142 | ... | 5 | 935 | 285 | 138 | ... | ... | 1,955 | 7,689 | ... | 11,149 |
| Pipe for piling | 4,315 | ... | ... | ... | ... | ... | ... | ... | ... | ... | 37 | ... | 37 |
| Wire-drawn | 432,340 | 3,003 | 149 | 22,678 | 4,622 | 11,600 | 7,402 | 6,838 | 21,447 | 2,920 | 2,532 | 3,316 | 86,507 |
| Black Plate | 146,081 | 10,196 | 1,150 | 16,535 | 18,529 | 1,616 | ... | ... | 368 | 2,519 | 309 | ... | 51,222 |
| Tin plate | 313,552 | 5,381 | 2,073 | 143 | 16,983 | 556 | ... | 4,107 | ... | 7,399 | 6,292 | ... | 42,934 |
| Tin free | 114,046 | 11 | ... | ... | 9,365 | 230 | ... | ... | ... | 235 | 1,074 | ... | 10,915 |
| Sheets-hot rolled | 2,281,717 | 41,133 | 6,817 | 19,343 | 67,170 | 22,986 | 2,720 | 33,564 | 4,093 | 10,436 | 16,658 | 1,754 | 226,674 |
| -cold rolled | 2,048,666 | 103,716 | 19,984 | 37,913 | 179,250 | 17,003 | 11,079 | 15,353 | 4,684 | 37,993 | 11,342 | 4,855 | 443,172 |
| Sheets & strip-galv.-hot dipped | 1,263,320 | 7,997 | 1,980 | 11,753 | 97,263 | 6,941 | 40,466 | 3,666 | 119 | 45,819 | 75,212 | 11,046 | 302,262 |
| -electrolytic | 385,960 | 462 | ... | 1,186 | 28,037 | 1,368 | 29,903 | 374 | ... | 1,299 | 6,544 | 473 | 69,646 |
| -all other metallic coated | 192,493 | 891 | 242 | 589 | 13,676 | 846 | 8,664 | 1,341 | 568 | 6,034 | 4,003 | ... | 36,854 |
| -electrical | 76,164 | 8,957 | ... | 613 | 1,270 | 4,271 | 587 | ... | ... | 8,735 | ... | ... | 24,433 |
| Strip-hot rolled | 96,473 | 3,369 | 17 | 723 | 679 | 1,670 | 376 | 2,515 | 985 | 1,338 | 356 | 3 | 12,031 |
| -cold rolled | 138,986 | 5,744 | 3,057 | 14,692 | 10,930 | 2,605 | 1,554 | 926 | 5,214 | 5,221 | 167 | 21 | 50,131 |
| Total Steel Mill Products | 17,168,624 | 300,079 | 48,168 | 313,847 | 777,818 | 170,620 | 108,989 | 124,582 | 67,346 | 326,002 | 415,043 | 38,250 | 2,690,749 |
| Carbon | 15,554,033 | 266,686 | 41,937 | 245,509 | 684,387 | 89,727 | 96,920 | 118,764 | 47,763 | 278,924 | 409,861 | 38,065 | 2,318,543 |
| Alloy | 1,233,927 | 27,231 | 2,028 | 26,013 | 55,459 | 43,871 | 10,282 | 4,803 | 11,525 | 32,527 | 3,933 | 51 | 217,723 |
| Stainless | 380,662 | 6,163 | 4,203 | 42,324 | 37,971 | 37,022 | 1,787 | 1,015 | 8,057 | 14,550 | 1,249 | 134 | 154,475 |

# Table 23 (continued)

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | GULF COAST–MEXICAN BORDER | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Mobile | New Orleans | Port Arthur | Houston | Dallas | Laredo | El Paso Nogales | Total |
| **Steel Mill Products:** | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | 286,000 | 102,941 | 208,702 | 19,410 | ... | 12,412 | ... | 629,465 |
| Wire rods | 21,340 | 87,866 | ... | 105,028 | 4,787 | ... | ... | 219,021 |
| Structural shapes (3" & over) | 8,954 | 43,081 | ... | 85,058 | ... | 17,155 | 2,687 | 156,935 |
| Steel piling | 2,118 | 5,119 | ... | 20,329 | ... | ... | ... | 27,566 |
| Plates- cut lengths | 19,427 | 113,031 | ... | 253,642 | 104 | 41,520 | ... | 427,724 |
| -in coils | 70,773 | 5,449 | ... | 124,622 | 36 | 1,027 | ... | 201,907 |
| Rails-standard | 19,235 | 4,742 | ... | 1,919 | ... | ... | ... | 25,896 |
| -all other | 9,102 | 3,394 | ... | 4,096 | ... | 49 | ... | 16,641 |
| Railroad accessories | ... | ... | ... | 3 | ... | ... | ... | 3 |
| Bars-hot rolled | 395 | 57,871 | ... | 31,524 | 154 | 3,286 | 81 | 93,311 |
| -shapes under 3" | ... | 1,094 | ... | 2,362 | ... | 159 | 938 | 4,553 |
| -concrete reinforcing | ... | ... | ... | 103 | ... | 4,683 | 33 | 4,819 |
| -cold finished | 83 | 5,977 | ... | 23,627 | 14 | 830 | 3 | 30,534 |
| Tool steel | ... | 1,814 | ... | 733 | ... | 230 | ... | 2,777 |
| Standard pipe | 102 | 73,183 | ... | 177,528 | ... | 67,922 | ... | 318,735 |
| Oil country goods | ... | 21,157 | ... | 314,855 | ... | ... | ... | 336,012 |
| Line pipe | 299 | 182,263 | ... | 263,000 | ... | 33,101 | 338 | 479,001 |
| Mechanical tubing | 1,307 | 9,246 | ... | 36,125 | 285 | 5,251 | 13 | 52,227 |
| Pressure tubing | ... | 5,344 | ... | 11,091 | ... | 1,237 | ... | 17,672 |
| Stainless pipe & tubing | 932 | 1,540 | ... | 9,321 | 108 | 586 | ... | 12,487 |
| Nonclassified pipe & tubing | ... | 290 | ... | 3,138 | ... | ... | ... | 3,428 |
| Structural pipe & tubing | 933 | 7,874 | ... | 15,786 | 10 | 2,696 | ... | 27,299 |
| Pipe for piling | ... | 707 | ... | 1,226 | ... | ... | ... | 1,933 |
| Wire-drawn | 20 | 27,890 | ... | 21,667 | 2,913 | 2,763 | 243 | 55,496 |
| Black Plate | ... | 18,219 | ... | 1,126 | ... | ... | ... | 19,345 |
| Tin plate | 9,917 | 23,671 | ... | 19,581 | ... | ... | ... | 53,169 |
| Tin free | 1,558 | 4,835 | ... | 7,194 | ... | ... | ... | 13,587 |
| Sheets-hot rolled | 23,350 | 106,492 | 34 | 199,125 | ... | 5,957 | 2 | 334,960 |
| -cold rolled | 5,164 | 193,236 | ... | 149,164 | ... | 33,765 | ... | 381,329 |
| Sheets & strip-galv.-hot dipped | 1,662 | 124,821 | ... | 108,424 | ... | 57,340 | 1,486 | 293,733 |
| -electrolytic | ... | 33,784 | ... | 13,437 | ... | 50,180 | ... | 97,401 |
| -all other metallic coated | 56 | 41,797 | ... | 6,392 | ... | 113 | ... | 48,358 |
| -electrical | ... | 25,097 | ... | 3,300 | ... | ... | ... | 28,397 |
| Strip-hot rolled | ... | 4,782 | ... | 1,938 | ... | 2,538 | 65 | 9,323 |
| -cold rolled | 183 | 6,020 | ... | 6,877 | 4 | 539 | ... | 13,623 |
| Total Steel Mill Products | 482,912 | 1,344,624 | 208,737 | 2,042,754 | 8,415 | 345,338 | 5,888 | 4,438,668 |
| Carbon | 468,457 | 1,168,691 | 202,494 | 1,763,139 | 5,847 | 311,557 | 4,223 | 3,924,408 |
| Alloy | 1,606 | 160,752 | 6,243 | 249,318 | 2,441 | 10,913 | 1,663 | 432,936 |
| Stainless | 12,850 | 15,182 | ... | 30,298 | 127 | 22,869 | 2 | 81,328 |

# Table 23 (continued)

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | PACIFIC COAST | | | | | | OFF SHORE | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | San Diego | Los Angeles | San Francisco | Columbia Snake | Seattle | Total | Virgin Islands | Anch-orage | Hono-lulu | San Juan | Total |
| **Steel Mill Products:** | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | ... | 1,084,484 | ... | 52,561 | ... | 1,137,045 | ... | ... | ... | ... | ... |
| Wire rods | ... | 89,575 | 44,806 | 176 | 17,780 | 152,337 | ... | ... | ... | 15,574 | 15,574 |
| Structural shapes (3" & over) | 6,566 | 93,736 | 58,892 | 13,359 | 5,132 | 177,685 | 106 | ... | 72 | 7,807 | 7,985 |
| Steel piling | ... | ... | 3,932 | 1,148 | 398 | 5,478 | ... | ... | ... | 995 | 995 |
| Plates- cut lengths | ... | 40,615 | 5,411 | 16,102 | 16,585 | 78,713 | 12 | ... | 1,863 | 4,190 | 6,065 |
| -in coils | ... | 35,604 | 1,267 | 7,956 | 5,311 | 50,138 | ... | ... | ... | 19 | 19 |
| Rails-standard | ... | 191 | 139 | 41,478 | 80 | 41,888 | ... | ... | ... | ... | ... |
| -all other | ... | 678 | 1,270 | 14,636 | 210 | 16,794 | ... | ... | ... | ... | ... |
| Railroad accessories | ... | ... | ... | 4 | 758 | 762 | ... | 361 | ... | ... | 361 |
| Bars-hot rolled | 1,621 | 33,699 | 2,230 | 1,564 | 1,998 | 41,112 | ... | 2 | ... | 13,882 | 13,884 |
| -shapes under 3" | 1,058 | 4,228 | 508 | 677 | 317 | 6,788 | ... | 16 | ... | 3,109 | 3,125 |
| -concrete reinforcing | 523 | 24,691 | 9,091 | 950 | 1,304 | 36,559 | 3,100 | ... | 1,652 | 90,852 | 95,604 |
| -cold finished | ... | 17,095 | 1,585 | 4,149 | 2,612 | 25,441 | 1,821 | ... | ... | 993 | 2,814 |
| Tool steel | ... | 868 | 4 | 326 | 204 | 1,402 | ... | ... | ... | 19 | 19 |
| Standard pipe | 204 | 177,819 | 43,221 | 39,056 | 36,857 | 297,157 | 12 | 68 | 1,876 | 5,616 | 7,572 |
| Oil country goods | ... | 25,132 | 480 | ... | 1,106 | 26,718 | ... | 12,884 | 309 | ... | 13,193 |
| Line pipe | ... | 54,704 | 2,289 | 2,427 | 2,104 | 61,524 | ... | 8,350 | ... | 1,237 | 9,587 |
| Mechanical tubing | ... | 22,880 | 2,726 | 5,324 | 5,419 | 36,349 | ... | ... | 164 | 4,999 | 5,163 |
| Pressure tubing | ... | 1,819 | 2 | ... | 3 | 1,824 | ... | ... | 12 | 145 | 157 |
| Stainless pipe & tubing | ... | 5,935 | 146 | 873 | 1,665 | 8,619 | ... | ... | ... | 8 | 8 |
| Nonclassified pipe & tubing | ... | 68 | ... | 247 | 2,037 | 2,352 | ... | ... | ... | 337 | 337 |
| Structural pipe & tubing | ... | 21,095 | 6,358 | 9,186 | 4,205 | 40,844 | ... | ... | 1,330 | 555 | 1,885 |
| Pipe for piling | ... | 233 | ... | 14 | 529 | 776 | ... | ... | ... | ... | 0 |
| Wire-drawn | 2 | 24,197 | 4,023 | 1,598 | 40,722 | 70,542 | ... | ... | 3,282 | 9,436 | 12,718 |
| Black Plate | .. | 14,373 | 2,072 | ... | 54 | 16,499 | ... | ... | ... | ... | ... |
| Tin plate | ... | 28,205 | 72,689 | 57 | 274 | 101,225 | ... | ... | ... | 14,963 | 14,963 |
| Tin free | ... | 25,901 | 18,897 | ... | 18 | 44,816 | ... | ... | ... | 20,869 | 20,869 |
| Sheets-hot rolled | ... | 183,080 | 570,302 | 21,049 | 16,734 | 791,165 | ... | ... | ... | 2,452 | 2,452 |
| -cold rolled | 365 | 271,133 | 159,062 | 5,763 | 14,150 | 450,473 | ... | ... | 72 | 5,858 | 5,930 |
| Sheets & strip-galv.-hot dipped | ... | 137,184 | 113,598 | 39,374 | 43,565 | 333,721 | 176 | ... | 2,725 | 33,380 | 36,281 |
| -electrolytic | 4 | 42,578 | 7,495 | 12,910 | 8,185 | 71,172 | ... | ... | 46 | 10,070 | 10,116 |
| -all other metallic coated | ... | 35,360 | 9,074 | 2,437 | 15,212 | 62,083 | 275 | ... | 1,924 | 3,150 | 5,349 |
| -electrical | 1 | 4,528 | 3,304 | ... | 83 | 7,916 | ... | ... | ... | ... | ... |
| Strip-hot rolled | ... | 2,096 | 363 | 290 | 165 | 2,914 | 1,118 | ... | ... | ... | 1,118 |
| -cold rolled | 6 | 5,084 | 2,240 | 1,754 | 455 | 9,539 | ... | ... | 4 | 3,396 | 3,400 |
| Total Steel Mill Products | 10,350 | 2,508,870 | 1,147,477 | 297,446 | 246,230 | 4,210,373 | 6,620 | 21,680 | 15,332 | 253,911 | 297,543 |
| Carbon | 9,523 | 2,383,839 | 1,112,571 | 282,327 | 226,490 | 4,014,750 | 6,114 | 10,870 | 15,184 | 250,937 | 283,105 |
| Alloy | 462 | 82,627 | 31,015 | 12,621 | 13,746 | 140,471 | 506 | 10,811 | 144 | 2,652 | 14,113 |
| Stainless | 365 | 42,404 | 3,891 | 2,498 | 5,994 | 55,152 | ... | ... | 4 | 322 | 326 |

# Table 23 (continued)

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | GREAT LAKES–CANADIAN BORDER | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Port-land | St. Albans | Ogdens-burg | Buffalo | Great Falls | Pem-bina | Duluth Mpls. | Mil-waukee | Detroit | Chicago | Cleveland | St. Louis | Total |
| **Steel Mill Products:** | | | | | | | | | | | | | |
| Ingots, blooms, billets, slabs, etc. | ... | ... | 4,683 | 122,778 | 951 | 92 | ... | 6,002 | 128,245 | 40,169 | 99,730 | ... | 402,650 |
| Wire rods | ... | 11,861 | 61,673 | 109,746 | 1 | ... | ... | 3,645 | 170,439 | 8,715 | 22,323 | ... | 388,403 |
| Structural shapes (3" & over) | 112 | 8,211 | 7,672 | 89,037 | 408 | 60,254 | 223 | 26,985 | 78,748 | 41,091 | 24,275 | ... | 337,016 |
| Steel piling | ... | 899 | 5,167 | 933 | ... | ... | ... | ... | 11,635 | 12,678 | 167 | ... | 31,479 |
| Plates- cut lengths | 7 | 3,072 | 3,000 | 30,987 | 300 | 20,623 | 4,432 | 39,464 | 113,584 | 60,581 | 25,573 | ... | 301,623 |
| -in coils | ... | 750 | 158 | 21,853 | 531 | 86,278 | 7,476 | 96 | 68,539 | 63,824 | 32,120 | ... | 281,625 |
| Rails-standard | ... | ... | ... | ... | ... | ... | ... | ... | 192 | 1,158 | 1,698 | ... | 3,048 |
| -all other | ... | ... | ... | 22 | ... | 64 | ... | ... | 1,245 | 2,436 | 1,810 | ... | 5,577 |
| Railroad accessories | 4 | 24 | 1 | 3 | 7 | ... | 98 | ... | 5 | ... | 75 | ... | 217 |
| Bars-hot rolled | 39 | 7,012 | 9,552 | 59,162 | 1,050 | 2,017 | 26 | 6,968 | 237,438 | 33,333 | 102,347 | 1,176 | 460,120 |
| -shapes under 3" | ... | 1,635 | 1,703 | 27,836 | 33 | 4,199 | ... | 1,667 | 33,166 | 523 | 131 | ... | 70,893 |
| -concrete reinforcing | 22 | 97 | 93 | 699 | ... | 5 | ... | ... | 23 | ... | ... | ... | 939 |
| -cold finished | 2 | 1,083 | 2,481 | 25,026 | 37 | ... | 82 | 1,234 | 17,180 | 17,345 | 3,093 | 24 | 67,587 |
| Tool steel | ... | 710 | 198 | 1,695 | ... | ... | ... | 201 | 8,433 | 4,118 | 902 | ... | 16,257 |
| Standard pipe | 102 | 13,243 | 10,050 | 26,608 | 3,274 | 277 | 884 | ... | 67,502 | 9,589 | 12,040 | 339 | 143,908 |
| Oil country goods | ... | ... | ... | 8,846 | 812 | 458 | ... | ... | 927 | 2 | 38 | ... | 11,083 |
| Line pipe | ... | ... | 1 | 25,208 | 909 | 735 | 74 | ... | 1,488 | 1,129 | 283 | ... | 29,827 |
| Mechanical tubing | 18 | 2,532 | 5,023 | 14,883 | 240 | 252 | 41 | 1 | 33,089 | 4,104 | 1,266 | ... | 61,449 |
| Pressure tubing | 14 | 40 | 30 | 376 | 5 | 94 | 3 | 2 | 93 | 164 | 1,999 | ... | 2,820 |
| Stainless pipe & tubing | 13 | 128 | 1,360 | 1,023 | 44 | 1 | 66 | 30 | 4,120 | 896 | 259 | ... | 7,940 |
| Nonclassified pipe & tubing | 13 | 17 | 281 | 581 | 290 | 65 | 9 | ... | 700 | ... | 9 | ... | 1,965 |
| Structural pipe & tubing | 19 | 6,447 | 10,621 | 48,361 | 2,110 | 2,606 | 53 | 29 | 123,617 | 335 | 59 | ... | 194,257 |
| Pipe for piling | 31 | 3 | 96 | 968 | 300 | 152 | ... | ... | 18 | ... | ... | ... | 1,568 |
| Wire-drawn | 5,192 | 27,635 | 44,435 | 36,436 | 1 | 96 | 561 | 1,973 | 44,975 | 40,138 | 2,783 | 2,852 | 207,077 |
| Black Plate | ... | 57 | 15 | 1,894 | ... | ... | ... | ... | 9,645 | 15,460 | 31,943 | ... | 59,014 |
| Tin plate | ... | ... | 257 | 41,179 | ... | ... | ... | 194 | 16,937 | 33,276 | 8,652 | 766 | 101,261 |
| Tin free | ... | ... | 62 | 7,955 | ... | ... | ... | ... | 4,568 | 9,434 | 1,843 | ... | 23,862 |
| Sheets-hot rolled | 3,219 | 2,857 | 2,945 | 138,590 | 214 | 14,548 | 36,079 | 7,547 | 330,481 | 206,178 | 182,983 | 821 | 926,462 |
| -cold rolled | 21 | 20,983 | 3,065 | 49,636 | ... | 142 | 7,476 | 5,514 | 260,045 | 347,639 | 71,425 | 1,816 | 767,762 |
| Sheets & strip-galv.-hot dipped | ... | 248 | 606 | 53,546 | ... | 186 | ... | 234 | 195,368 | 38,372 | 8,764 | ... | 297,324 |
| -electrolytic | 87 | 34 | 57 | 3,893 | ... | ... | ... | ... | 120,064 | 7,102 | 6,386 | ... | 137,623 |
| -all other metallic coated | ... | 60 | 3,008 | 7,158 | ... | ... | ... | ... | 12,847 | 4,318 | 12,455 | ... | 39,846 |
| -electrical | ... | ... | ... | 152 | ... | ... | ... | ... | 4,996 | 9,416 | 855 | ... | 15,419 |
| Strip-hot rolled | ... | 1,984 | 675 | 19,071 | 78 | 6,908 | ... | ... | 39,839 | 217 | 2,313 | ... | 71,085 |
| -cold rolled | ... | 175 | 2,123 | 17,080 | 1 | 3 | 68 | 13 | 28,819 | 9,086 | 4,928 | ... | 62,296 |
| **Total Steel Mill Products** | 8,915 | 111,799 | 181,093 | 993,222 | 11,596 | 200,057 | 57,656 | 101,798 | 2,169,010 | 1,022,825 | 665,527 | 7,793 | 5,531,291 |
| **Carbon** | 8,879 | 109,614 | 172,179 | 918,531 | 9,991 | 142,428 | 55,031 | 74,243 | 1,992,886 | 911,772 | 610,386 | 7,286 | 5,013,226 |
| **Alloy** | 24 | 2,023 | 4,711 | 43,363 | 1,500 | 57,501 | 2,424 | 27,417 | 159,253 | 81,381 | 48,632 | 455 | 428,684 |
| **Stainless** | 13 | 162 | 4,202 | 31,328 | 104 | 128 | 201 | 139 | 16,871 | 29,672 | 6,509 | 52 | 89,381 |

# Table 23A

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | Grand Total | ATLANTIC COAST | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Boston | Providence | New York City | Philadelphia | Baltimore Wash.,DC | Norfolk | Wilmington | Charleston | Savannah | Tampa | Miami | Total |
| Other Steel Products: | | | | | | | | | | | | | |
| Structural shapes, fabricated | 95,565 | 94 | ... | 2,053 | 1,197 | 1,853 | 3,055 | 1,718 | 895 | 6,720 | 2,542 | 492 | 20,619 |
| Shapes-Cold formed | 9,011 | 434 | ... | 159 | 99 | 167 | 114 | 56 | 38 | 68 | 160 | 138 | 1,433 |
| Sashes and frames | 9,391 | 16 | ... | 801 | 5 | 24 | 21 | ... | 6 | 1 | 4 | 21 | 899 |
| Rails - used | 170,288 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Railway track material | 8,717 | ... | ... | 125 | 52 | 119 | 22 | ... | ... | 50 | ... | ... | 368 |
| Wheels and axles+ | 35,338 | 5 | ... | 391 | 1,791 | 372 | 24 | 1 | ... | 58 | ... | 30 | 2,672 |
| Fence or sign posts | 1,551 | 188 | ... | 129 | 57 | 65 | 103 | ... | 13 | 112 | 3 | 38 | 708 |
| Wire-Nonmetalic coated | 5,091 | 61 | ... | 1,175 | 126 | 775 | 415 | ... | ... | ... | 5 | 71 | 2,628 |
| Wire rope | 93,225 | 3,104 | 65 | 6,590 | 1,752 | 4,371 | 732 | 373 | 13,712 | 3,081 | 2,209 | 454 | 36,443 |
| Wire strand | 167,632 | 484 | ... | 5,482 | 1,759 | 2,004 | 5,502 | 1,519 | 21,782 | 15,634 | 3,982 | 3,157 | 61,305 |
| Wire springs | 234,529 | 72 | ... | 591 | 8,338 | 2,727 | 4,705 | 55 | 1,931 | 371 | 175 | 3,224 | 22,189 |
| Woven wire fabric | 8,651 | 4 | ... | 1,531 | 495 | 80 | ... | 4 | 42 | 85 | 1 | 132 | 2,374 |
| Grill, netting & fencing | 54,362 | 31 | 23 | 1,528 | 129 | 327 | 347 | 13 | 1,022 | 73 | 1,436 | 9,740 | 14,669 |
| Nails and staples | 376,291 | 4,404 | 2,351 | 19,158 | 22,587 | 8,476 | 6,024 | 17,119 | 10,593 | 15,754 | 12,101 | 8,794 | 127,361 |
| Barbed wire | 15,350 | ... | ... | 161 | 19 | 292 | 230 | 460 | 155 | 20 | 235 | 755 | 2,327 |
| Bale ties & baling wire | 696 | 7 | ... | 59 | ... | ... | 4 | ... | 6 | ... | ... | ... | 76 |
| Industrial fasteners | 722,023 | 9,217 | 4,252 | 61,249 | 17,651 | 20,858 | 8,745 | 5,855 | 4,818 | 24,204 | 7,536 | 4,810 | 169,195 |
| Architectural & ornamental work | 953 | ... | ... | 5 | ... | 17 | ... | ... | ... | ... | ... | 96 | 118 |
| Chains & parts | 73,563 | 937 | 21 | 6,762 | 978 | 1,843 | 1,929 | 66 | 2,266 | 1,477 | 281 | 523 | 17,083 |
| Cast steel rolls | 1,615 | ... | ... | 42 | 91 | 150 | 40 | 2 | 102 | 75 | ... | ... | 502 |
| Grinding balls | 8,966 | ... | ... | 146 | 12 | 15 | ... | 2 | 1 | 1 | ... | ... | 177 |
| Conduit | 472 | ... | ... | 13 | ... | ... | ... | ... | ... | ... | ... | 3 | 16 |
| Pipe & tube fittings | 138,869 | 211 | ... | 5,654 | 3,196 | 2,727 | 401 | 217 | 330 | 2,233 | 5,925 | 386 | 21,280 |
| Total Other Steel Products | 2,232,147 | 19,268 | 6,712 | 113,803 | 60,334 | 47,264 | 32,414 | 27,460 | 57,712 | 70,018 | 36,595 | 32,865 | 504,442 |
| Total Steel Products | 19,400,767 | 319,347 | 54,880 | 427,650 | 838,152 | 217,882 | 141,403 | 152,042 | 125,058 | 396,020 | 451,638 | 71,115 | 3,195,187 |
| Iron Products & Ferroalloys: | | | | | | | | | | | | | |
| Cast iron tube, pipes, profiles & fitting | 22,531 | 191 | ... | 823 | 1,075 | 95 | 1,303 | 1 | 783 | 177 | 146 | 158 | 4,752 |
| Malleable cast iron pipe fittings | 30,112 | 621 | ... | 1,149 | 1,126 | 228 | 712 | 19 | 143 | 1,982 | 1,760 | 235 | 7,975 |
| Castings and forgings | 176,155 | 2,082 | 2 | 24,700 | 4,918 | 7,687 | 10,056 | 2,045 | 749 | 7,354 | 1,747 | 662 | 62,002 |
| Pig iron | 382,738 | 4,508 | ... | ... | 5,661 | ... | ... | ... | ... | 6,700 | ... | ... | 16,869 |
| Sponge iron | 423,820 | 160 | ... | 2,587 | 7,027 | 9,016 | 7 | 4 | 25 | 57 | ... | ... | 18,883 |
| Ferroalloys | 1,445,935 | ... | ... | 1,447 | 43,532 | 166,140 | 969 | 94 | 6,403 | 1,696 | 7,914 | ... | 228,195 |
| Total Iron Products & Ferroalloys | 2,481,291 | 7,562 | 2 | 30,707 | 63,340 | 183,166 | 13,047 | 2,163 | 8,104 | 17,965 | 11,567 | 1,056 | 338,676 |
| Grand Total | 21,882,058 | 326,909 | 54,882 | 458,357 | 901,492 | 401,048 | 154,450 | 154,205 | 133,162 | 413,985 | 463,205 | 72,171 | 3,533,866 |
| Iron and steel scrap | 1,423,673 | ... | ... | 11,196 | 32,600 | 653 | 99 | 1,289 | 119 | 379 | 5,333 | 1,657 | 53,325 |

# Table 23A (continued)

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | GULF COAST–MEXICAN BORDER | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Mobile | New Orleans | Port Arthur | Houston | Dallas | Laredo | El Paso Nogales | Total |
| Other Steel Products: | | | | | | | | |
| Structural shapes, fabricated | 55 | 689 | ... | 4,485 | 33 | 5,720 | 34 | 11,016 |
| Shapes–Cold formed | ... | 309 | ... | 629 | ... | 935 | 2 | 1,875 |
| Sashes and frames | 36 | 2 | ... | 24 | ... | 775 | 1 | 838 |
| Rails - used | 2,109 | 752 | 7,231 | ... | ... | ... | ... | 10,092 |
| Railway track material | 206 | 8 | ... | 600 | ... | 34 | ... | 848 |
| Wheels and axles+ | 142 | 1,165 | ... | 48 | ... | ... | 213 | 1,568 |
| Fence or sign posts | ... | 32 | ... | 1 | ... | ... | ... | 33 |
| Wire–Nonmetalic coated | ... | 16 | ... | 29 | ... | ... | ... | 45 |
| Wire rope | 2,183 | 8,891 | ... | 12,794 | 18 | 3,310 | ... | 27,196 |
| Wire strand | 581 | 22,627 | ... | 35,530 | 5,904 | 4,847 | 41 | 69,530 |
| Wire springs | 41 | 5,463 | ... | 1,824 | 2,849 | 27,672 | 4 | 37,853 |
| Woven wire fabric | ... | 61 | ... | 1,657 | 434 | 116 | 161 | 2,429 |
| Grill, netting & fencing | 15 | 71 | ... | 502 | 130 | 17,951 | 2,798 | 21,467 |
| Nails and staples | 146 | 25,943 | ... | 27,842 | 188 | 2,303 | 8 | 56,430 |
| Barbed wire | 206 | 5,092 | ... | 2,393 | 1 | 1,549 | 297 | 9,538 |
| Bale ties & baling wire | ... | 2 | ... | ... | 4 | 3 | ... | 9 |
| Industrial fasteners | 6,549 | 15,275 | ... | 31,726 | 2,640 | 10,297 | 370 | 66,857 |
| Architectural & ornamental work | 603 | ... | ... | 3 | ... | ... | ... | 606 |
| Chains & parts | 1,048 | 4,478 | ... | 1,760 | 660 | 204 | 89 | 8,239 |
| Cast steel rolls | ... | 96 | ... | 126 | ... | 60 | ... | 282 |
| Grinding balls | ... | ... | ... | 73 | ... | ... | ... | 73 |
| Conduit | ... | ... | ... | ... | ... | 20 | ... | 20 |
| Pipe & tube fittings | 2,071 | 9,505 | ... | 47,341 | 93 | 5,332 | 69 | 64,411 |
| Total Other Steel Products | 15,988 | 100,477 | 7,231 | 169,388 | 12,954 | 81,126 | 4,090 | 391,255 |
| Total Steel Products | 498,900 | 1,445,101 | 215,968 | 2,212,142 | 21,369 | 426,464 | 9,978 | 4,829,922 |
| Iron Products & Ferroalloys: | | | | | | | | |
| Cast iron tube, pipes, profiles & fitting | 20 | 38 | ... | 1,041 | 5 | 1,284 | 945 | 3,333 |
| Malleable cast iron pipe fittings | 297 | 1,569 | ... | 3,845 | 585 | 56 | 39 | 6,391 |
| Castings and forgings | 5,871 | 6,532 | ... | 30,441 | 722 | 8,863 | 575 | 53,004 |
| Pig iron | ... | 269,560 | ... | ... | ... | 2,221 | 1 | 271,782 |
| Sponge iron | ... | 243,063 | ... | 401 | ... | 6 | ... | 243,470 |
| Ferroalloys | 11,070 | 995,202 | ... | 4,651 | ... | 923 | ... | 1,011,846 |
| Total Iron Products & Ferroalloys | 17,259 | 1,515,963 | ... | 40,378 | 1,312 | 13,353 | 1,560 | 1,589,826 |
| Grand Total | 516,159 | 2,961,064 | 215,968 | 2,125,769 | 22,681 | 439,817 | 11,538 | 6,419,748 |
| Iron and steel scrap | 107 | 28,986 | ... | 5,100 | ... | 32,090 | 12,692 | 78,975 |

# Table 23A (continued)

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | PACIFIC COAST | | | | | | OFF SHORE | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | San Diego | Los Angeles | San Francisco | Columbia Snake | Seattle | Total | Virgin Islands | Anch-orage | Hono-lulu | San Juan | Total |
| Other Steel Products: | | | | | | | | | | | |
| Structural shapes, fabricated | 3,635 | 16,522 | 909 | 5,485 | 5,033 | 31,584 | 31 | 2,315 | 216 | 691 | 3,253 |
| Shapes-Cold formed | ... | 2,842 | 402 | 91 | 255 | 3,590 | ... | ... | ... | ... | ... |
| Sashes and frames | 744 | 212 | 5 | 2 | 1,028 | 1,991 | ... | 1 | 20 | 4 | 25 |
| Rails - used | ... | 1 | ... | ... | 3,975 | 3,976 | ... | 145 | ... | 7 | 152 |
| Railway track materia! | ... | 25 | 16 | 51 | 4,526 | 4,618 | ... | 62 | ... | ... | 62 |
| Wheels and axles+ | ... | 9 | 71 | 707 | 1,622 | 2,409 | ... | ... | ... | ... | ... |
| Fence or sign posts | 25 | 326 | 56 | 23 | 26 | 456 | ... | ... | ... | 1 | 1 |
| Wire-Nonmetalic coated | ... | 286 | ... | ... | 217 | 503 | ... | ... | ... | 1,499 | 1,499 |
| Wire rope | 1,117 | 5,397 | 1,828 | 3,867 | 8,722 | 20,931 | 16 | ... | 56 | 195 | 267 |
| Wire strand | 32 | 4,274 | 6,987 | 294 | 11,609 | 23,196 | ... | 13 | 172 | 767 | 952 |
| Wire springs | 28 | 2,020 | 718 | 436 | 4,730 | 7,932 | ... | 1 | ... | 187 | 188 |
| Woven wire fabric | 1,317 | 438 | 96 | 49 | 15 | 1,915 | ... | ... | ... | 332 | 332 |
| Grill, netting & fencing | 209 | 1,629 | 475 | 47 | 4,309 | 6,669 | 37 | ... | 211 | 1,802 | 2,050 |
| Nails and staples | 610 | 55,626 | 28,291 | 1,528 | 31,368 | 117,423 | 8 | 12 | 128 | 2,557 | 2,705 |
| Barbed wire | ... | 506 | 271 | 84 | 246 | 1,107 | 2 | ... | 98 | 2,278 | 2,378 |
| Bale ties & baling wire | ... | 1 | 5 | ... | 9 | 15 | ... | ... | ... | ... | ... |
| Industrial fasteners | 1,036 | 140,671 | 19,384 | 8,374 | 31,081 | 200,546 | 2 | 6 | 159 | 752 | 919 |
| Architectural & ornamental work | 137 | 2 | ... | ... | ... | 139 | ... | ... | 18 | ... | 18 |
| Chains & parts | 36 | 8,215 | 1,358 | 7,060 | 11,574 | 28,243 | ... | 12 | 215 | 151 | 378 |
| Cast steel rolls | ... | 207 | ... | ... | 87 | 294 | ... | ... | 14 | ... | 14 |
| Grinding balls | ... | 69 | ... | ... | 451 | 520 | ... | ... | ... | 37 | 37 |
| Conduit | 1 | 13 | ... | ... | 16 | 30 | ... | ... | ... | 400 | 400 |
| Pipe & tube fittings | 2,416 | 9,528 | 1,472 | 2,670 | 1,489 | 17,575 | ... | 219 | 33 | 105 | 357 |
| Total Other Steel Products | 11,345 | 248,818 | 62,345 | 30,769 | 122,389 | 475,662 | 97 | 2,785 | 1,340 | 11,766 | 15,987 |
| Total Steel Products | 21,695 | 2,757,688 | 1,209,822 | 328,215 | 368,619 | 4,686,039 | 6,717 | 24,465 | 16,672 | 265,677 | 313,531 |
| Iron Products & Ferroalloys: | | | | | | | | | | | |
| Cast iron tube, pipes, profiles & fitting | 1,630 | 10,119 | 688 | 143 | 342 | 12,922 | 3 | ... | ... | 20 | 23 |
| Malleable cast iron pipe fittings | 563 | 9,843 | 1,289 | 436 | 498 | 12,629 | ... | 1 | 37 | 241 | 279 |
| Castings and forgings | 5,080 | 11,512 | 12,402 | 555 | 9,439 | 38,988 | ... | ... | 5 | 913 | 918 |
| Pig iron | ... | 31 | ... | ... | 3,522 | 3,553 | ... | ... | ... | ... | ... |
| Sponge iron | ... | 286 | 1,511 | 28,580 | 1,854 | 32,231 | ... | ... | ... | ... | ... |
| Ferroalloys | ... | 15,463 | 3,730 | 27,775 | 9,078 | 56,046 | ... | ... | ... | ... | ... |
| Total Iron Products & Ferroalloys | 7,272 | 47,253 | 19,622 | 57,489 | 24,732 | 156,369 | 3 | 1 | 42 | 1,175 | 1,220 |
| Grand Total | 28,967 | 2,804,941 | 1,229,444 | 385,704 | 393,351 | 4,842,407 | 6,720 | 24,466 | 16,714 | 266,852 | 314,752 |
| Iron and steel scrap | 25,431 | 10,088 | 49 | 80 | 356,115 | 391,763 | ... | ... | 2,068 | 6 | 2,074 |

# Table 23A (continued)

## Imports of Iron and Steel Products by Customs District–1990

(Net Tons)

| Products | GREAT LAKES–CANADIAN BORDER | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Port-land | St. Albans | Ogdens-burg | Buffalo | Great Falls | Pem-bina | Duluth Mpls. | Mil-waukee | Detroit | Chicago | Cleveland | St. Louis | Total |
| Other Steel Products: | | | | | | | | | | | | | |
| Structural shapes, fabricated | 5,485 | 2,521 | 3,618 | 9,218 | 441 | 379 | 124 | 145 | 6,609 | 372 | 182 | ... | 29,094 |
| Shapes-Cold formed | ... | 35 | 220 | 224 | ... | ... | ... | 821 | 330 | 326 | 155 | ... | 2,111 |
| Sashes and frames | 3 | 535 | 284 | 3,409 | 9 | 18 | 18 | ... | 1,355 | 4 | 3 | ... | 5,638 |
| Rails - used | 415 | 252 | 47,506 | 46,740 | 125 | 30,992 | 15,640 | ... | 9,365 | ... | 5,035 | ... | 156,070 |
| Railway track material | 20 | 8 | 435 | 614 | 814 | 511 | 16 | ... | 226 | 11 | 164 | ... | 2,819 |
| Wheels and axles+ | 2 | 129 | 1,043 | 448 | 6 | 8,063 | 16,189 | 27 | 339 | 1,606 | 838 | ... | 28,690 |
| Fence or sign posts | ... | ... | 39 | 19 | 72 | ... | 1 | 7 | 54 | 128 | 32 | ... | 352 |
| Wire-Nonmetalic coated | ... | 71 | 8 | 68 | ... | ... | 8 | ... | 103 | 119 | ... | 39 | 416 |
| Wire rope | 12 | 314 | 548 | 245 | 94 | 57 | 162 | ... | 860 | 4,149 | 152 | 1,791 | 8,384 |
| Wire strand | 1,757 | 16 | 323 | 154 | 28 | 31 | 1,853 | 224 | 2,691 | 4,817 | 269 | 487 | 12,650 |
| Wire springs | 21 | 526 | 1,140 | 8,222 | 3,447 | 3,005 | 27 | 55 | 146,667 | 1,506 | 1,681 | 69 | 166,366 |
| Woven wire fabric | ... | ... | 3 | 465 | 8 | ... | 20 | ... | 275 | 255 | 537 | 35 | 1,598 |
| Grill, netting & fencing | 1 | 1,610 | 417 | 4,282 | 170 | 1 | 81 | ... | 2,443 | 445 | 50 | 8 | 9,508 |
| Nails and staples | 384 | 6,722 | 18,386 | 8,948 | 20 | ... | 315 | 200 | 17,444 | 18,133 | 1,773 | 46 | 72,371 |
| Barbed wire | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Bale ties & baling wire | ... | ... | 1 | 310 | ... | ... | ... | ... | 230 | 57 | ... | ... | 598 |
| Industrial fasteners | 1,090 | 1,782 | 33,545 | 19,453 | 563 | 202 | 2,508 | 1,564 | 91,305 | 96,283 | 31,188 | 5,023 | 284,506 |
| Architectural & ornamental work | ... | ... | 5 | 38 | ... | ... | ... | ... | 26 | 2 | ... | ... | 71 |
| Chains & parts | 66 | 830 | 1,709 | 1,626 | 127 | 75 | 333 | 53 | 699 | 11,307 | 2,337 | 457 | 19,619 |
| Cast steel rolls | ... | ... | ... | 36 | 15 | ... | 12 | ... | 6 | 421 | 12 | 19 | 521 |
| Grinding balls | ... | ... | 61 | 7,340 | ... | ... | ... | ... | 648 | 19 | 91 | ... | 8,159 |
| Conduit | ... | ... | ... | ... | ... | ... | ... | ... | 3 | 1 | ... | 5 | 9 |
| Pipe & tube fittings | 28 | 298 | 1,975 | 950 | 743 | 213 | 200 | 8 | 3,016 | 27,147 | 497 | 170 | 35,245 |
| Total Other Steel Products | 9,283 | 15,649 | 111,267 | 112,809 | 6,682 | 43,547 | 37,509 | 3,104 | 284,695 | 167,107 | 44,998 | 8,145 | 844,795 |
| Total Steel Products | 18,198 | 127,448 | 292,360 | 1,106,031 | 18,278 | 243,604 | 95,165 | 104,902 | 2,453,705 | 1,189,932 | 710,525 | 15,938 | 6,376,086 |
| Iron Products & Ferroalloys: | | | | | | | | | | | | | |
| Cast iron tube, pipes, profiles & fitting | 4 | 102 | 54 | 705 | ... | ... | ... | ... | 200 | 335 | 72 | 29 | 1,501 |
| Malleable cast iron pipe fittings | 1 | ... | 4 | 446 | 1 | 2 | 19 | ... | 716 | 1,127 | 315 | 209 | 2,840 |
| Castings and forgings | 39 | 1,292 | 3,238 | 2,818 | 1,141 | 7 | 164 | 142 | 2,418 | 8,043 | 743 | 1,196 | 21,241 |
| Pig iron | ... | 1,008 | 319 | 4,348 | ... | ... | ... | 46,538 | 18,577 | 2,442 | 17,302 | ... | 90,534 |
| Sponge iron | 20 | 1,345 | 24,503 | 4,166 | ... | ... | ... | 41 | 13,811 | 85,325 | 25 | ... | 129,236 |
| Ferroalloys | ... | 148 | 14,503 | 29,433 | ... | ... | ... | 656 | 27,887 | 53,822 | 22,253 | 1,146 | 149,848 |
| Total Iron Products & Ferroalloys | 63 | 3,895 | 42,621 | 41,915 | 1,143 | 9 | 184 | 47,377 | 63,609 | 151,092 | 40,709 | 2,580 | 395,200 |
| Grand Total | 18,261 | 131,343 | 334,981 | 1,147,946 | 19,421 | 243,613 | 95,349 | 152,279 | 2,517,314 | 1,341,024 | 751,234 | 18,518 | 6,771,283 |
| Iron and steel scrap | 980 | 300 | 52,506 | 114,859 | 4,472 | 14,600 | 44,139 | 1,695 | 603,591 | 12,637 | 47,543 | 214 | 897,536 |

# RAW STEEL PRODUCTION

Raw steel is defined as steel in the first solid state after melting suitable for further processing or sale, including ingots, steel for foundry castings and strand or pressure cast blooms, billets, slabs, or other product forms.

Raw steel production capability is defined as the tonnage capability to produce raw steel for a sustained full order book.

# Table 24

## Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

| | Open Hearth | | | Basic Oxygen Process | | | Electric | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Year | Carbon | Alloy | Total | Carbon | Alloy | Total | Carbon | Alloy | Stainless | Total |
| 1990 | 3,209 | 287 | 3,496 | 53,808 | 4,663 | 58,471 | 29,573 | 5,330 | 2,037 | 36,939 |
| 1989 | 4,229 | 213 | 4,442 | 53,677 | 4,671 | 58,348 | 28,325 | 4,902 | 1,926 | 35,154 |
| 1988 | 4,915 | 203 | 5,118 | 52,918 | 5,042 | 57,960 | 28,989 | 5,657 | 2,199 | 36,846 |
| 1987 | 2,652 | 14 | 2,666 | 48,536 | 3,960 | 52,496 | 26,788 | 5,173 | 2,028 | 33,989 |
| 1986 | 3,170 | 160 | 3,330 | 44,366 | 3,520 | 47,885 | 23,877 | 4,825 | 1,689 | 30,390 |
| 1985 | 6,005 | 423 | 6,428 | 47,688 | 4,197 | 51,885 | 23,006 | 5,257 | 1,683 | 29,946 |
| 1984 | 7,928 | 408 | 8,336 | 48,399 | 4,423 | 52,822 | 23,591 | 6,006 | 1,772 | 31,369 |
| 1983 | 5,703 | 248 | 5,951 | 48,115 | 3,934 | 52,050 | 19,965 | 4,900 | 1,750 | 26,615 |
| 1982 | 5,642 | 468 | 6,110 | 41,214 | 4,095 | 45,309 | 17,287 | 4,635 | 1,235 | 23,158 |
| 1981 | 12,195 | 1,257 | 13,452 | 65,701 | 7,530 | 73,231 | 23,566 | 8,836 | 1,743 | 34,145 |

# Table 24 (continued)

## Raw Steel Production by Type of Furnace, Grade and Cast

(Thousands of net tons)

| | Total | | | | Per Cent of Total | | | | | | Production by Type of Cast (Thousands of net tons) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | By Grade | | | By Type of Furnace | | | | | |
| Year | Carbon | Alloy | Stainless | Total | Carbon | Alloy | Stain-less | OH | BOP | Elec-tric | Ingots | Cont. Cast | Steel for Casting |
| 1990 | 86,590 | 10,279 | 2,037 | 98,906 | 87.5 | 10.4 | 2.1 | 3.5 | 59.1 | 37.4 | 32,189 | 66,643 | 74 |
| 1989 | 86,230 | 9,786 | 1,926 | 97,943 | 88.0 | 10.0 | 2.0 | 4.5 | 59.6 | 35.9 | 34,412 | 63,454 | 77 |
| 1988 | 86,823 | 10,902 | 2,199 | 99,924 | 86.9 | 10.9 | 2.2 | 5.1 | 58.0 | 36.9 | 38,615 | 61,232 | 77 |
| 1987 | 77,976 | 9,147 | 2,028 | 89,151 | 87.5 | 10.2 | 2.3 | 3.0 | 58.9 | 38.1 | 35,802 | 53,284 | 65 |
| 1986 | 71,413 | 8,505 | 1,689 | 81,606 | 87.5 | 10.4 | 2.1 | 4.1 | 58.7 | 37.2 | 36,487 | 45,064 | 55 |
| 1985 | 76,699 | 9,877 | 1,683 | 88,259 | 86.9 | 11.2 | 1.9 | 7.3 | 58.8 | 33.9 | 49,035 | 39,161 | 63 |
| 1984 | 79,918 | 10,838 | 1,772 | 92,528 | 86.4 | 11.7 | 1.9 | 9.0 | 57.1 | 33.9 | 55,787 | 36,669 | 74 |
| 1983 | 73,783 | 9,082 | 1,750 | 84,615 | 87.2 | 10.7 | 2.1 | 7.0 | 61.5 | 31.5 | 57,385 | 27,174 | 56 |
| 1982 | 64,143 | 9,198 | 1,235 | 74,577 | 86.0 | 12.3 | 1.7 | 8.2 | 60.7 | 31.1 | 52,875 | 21,628 | 74 |
| 1981 | 101,462 | 17,623 | 1,743 | 120,828 | 84.0 | 14.6 | 1.4 | 11.1 | 60.6 | 28.3 | 94,516 | 26,138 | 173 |

# Table 25

## Raw Steel Production by States

(Thousands of net tons)

| States | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Indiana | 21,231 | 20,868 | 21,175 | 19,290 | 16,837 |
| Ohio | 16,769 | 16,506 | 17,662 | 16,267 | 14,522 |
| Pennsylvania | 12,049 | 11,870 | 13,673 | 11,609 | 9,492 |
| Ala.,Tenn.,Ky.,Miss.,Ark | 8,830 | 7,650 | 6,216 | 5,506 | 5,333 |
| Michigan | 8,104 | 8,172 | 8,194 | 7,699 | 7,475 |
| Illinois | 7,810 | 7,515 | 7,758 | 7,141 | 6,414 |
| Va.,W.VA.,Ga.,Fla.,N.C.,S.C., La. | 7,014 | 7,369 | 7,617 | 7,056 | 6,641 |
| Ariz.,Col.,Utah,Wash.,Ore.,Ca.,Hawaii | 5,405 | 5,267 | 4,950 | 3,093 | 3,580 |
| R.I.,Conn.,N.J.,N.Y.,Del.,Md | 5,127 | 6,240 | 6,344 | 5,127 | 5,130 |
| Texas | 4,065 | 3,996 | 3,967 | 3,668 | 3,739 |
| Minn.,Mo.,Okla.,Nebr.,Iowa | 2,502 | 2,491 | 2,367 | 2,695 | 2,445 |
| Total | 98,906 | 97,943 | 99,924 | 89,151 | 81,606 |

# Table 26

## Monthly and Quarterly Raw Steel Production and Capability Utilization

(Thousands of net tons)+

| Periods | 1990 Net Tons | 1990 Capability Utilizaton* % | 1989 Net Tons | 1989 Capability Utilizaton* % | 1988 Net Tons | 1988 Capability Utilizaton* % | 1987 Net Tons | 1987 Capability Utilizaton* % | 1986 Net Tons | 1986 Capability Utilizaton* % |
|---|---|---|---|---|---|---|---|---|---|---|
| January | 8,241 | 83.1 | 8,729 | 88.2 | 8,380 | 88.1 | 6,248 | 65.5 | 7,666 | 69.4 |
| February | 7,624 | 85.1 | 8,022 | 89.8 | 7,984 | 89.7 | 5,992 | 69.5 | 7,171 | 71.8 |
| March | 8,505 | 85.7 | 8,997 | 90.9 | 8,763 | 92.2 | 7,375 | 77.3 | 7,947 | 71.9 |
| 1st Quarter | 24,410 | 84.7 | 25,762 | 89.7 | 25,141 | 90.1 | 19,619 | 70.8 | 22,808 | 71.5 |
| April | 8,209 | 85.2 | 8,738 | 92.2 | 8,398 | 91.4 | 7,402 | 80.3 | 7,787 | 73.5 |
| May | 8,529 | 85.7 | 8,633 | 88.1 | 8,832 | 93.1 | 7,641 | 80.2 | 7,616 | 69.5 |
| June | 8,142 | 84.5 | 8,171 | 86.2 | 8,031 | 87.4 | 7,349 | 79.7 | 6,730 | 63.5 |
| 2nd Quarter | 24,880 | 85.2 | 25,542 | 88.8 | 25,261 | 90.7 | 22,391 | 80.1 | 22,133 | 68.8 |
| First 6 Months | 49,281 | 84.9 | 51,295 | 89.2 | 50,370 | 90.3 | 41,933 | 75.3 | 44,966 | 70.0 |
| July | 8,101 | 82.0 | 7,955 | 80.8 | 8,313 | 88.0 | 7,324 | 77.3 | 6,352 | 59.2 |
| August | 8,452 | 85.5 | 7,790 | 79.2 | 8,181 | 86.6 | 7,494 | 79.1 | 5,668 | 52.8 |
| September | 8,094 | 84.6 | 7,617 | 80.0 | 8,237 | 90.1 | 7,694 | 83.9 | 5,644 | 54.3 |
| 3rd Quarter | 24,647 | 84.4 | 23,362 | 80.0 | 24,730 | 88.2 | 22,512 | 80.1 | 17,665 | 55.4 |
| 9 Months | 73,942 | 84.6 | 74,693 | 86.2 | 75,075 | 89.6 | 64,587 | 77.1 | 62,603 | 65.1 |
| October | 8,424 | 85.1 | 8,175 | 83.0 | 8,332 | 87.7 | 8,073 | 84.4 | 6,087 | 56.8 |
| November | 8,021 | 83.8 | 7,386 | 77.4 | 7,883 | 85.8 | 7,882 | 85.2 | 5,860 | 56.5 |
| December | 7,422 | 75.0 | 7,222 | 73.3 | 7,954 | 83.8 | 7,916 | 82.8 | 5,877 | 54.9 |
| 4th Quarter | 23,866 | 81.3 | 22,782 | 77.9 | 24,169 | 85.8 | 23,871 | 84.1 | 17,824 | 56.1 |
| Second 6 Months | 48,513 | 82.7 | 46,144 | 78.9 | 48,899 | 87.0 | 46,383 | 82.1 | 35,489 | 55.8 |
| Year | 98,906 | 84.7 | 97,943 | 84.5 | 99,924 | 89.2 | 89,151 | 79.5 | 81,606 | 63.8 |

*Raw Steel production capability varies in each calendar quarter and aggregated 127.9, 112.2, 112.0, 115.9 and 116.7 million net tons for the full years 1986, 1987, 1988, 1989 and 1990 respectively.

+Totals include adjustments not shown in monthly figures.

# BASIC MATERIALS USED IN THE PRODUCTION OF IRON AND STEEL PRODUCTS

# Table 27

## Pig Iron Production, Consumption and Sales

(Thousands of Net Tons)

| Year | Total Blast Furnace Production | Consumption | | Outside Sales |
|---|---|---|---|---|
| | | Steelmaking | Other than Steelmaking | |
| 1990 | 54,750 | 54,081 | 238 | 289 |
| 1989 | 55,873 | 55,299 | 414 | 298 |
| 1988 | 55,745 | 54,833 | 702 | 564 |
| 1987 | 48,410 | 47,413 | 315 | 668 |
| 1986 | 43,952 | 43,312 | 357 | 283 |
| 1985 | 50,446 | 49,547 | 619 | 435 |
| 1984 | 51,904 | 45,282 | 1,499 | 792 |
| 1983 | 48,706 | 45,783 | 868 | 658 |
| 1982 | 43,309 | 42,013 | 777 | 568 |
| 1981 | 73,570 | 70,858 | 3,055 | 1,228 |

# Table 28

## Imports of Iron Ore By Countries of Origin

(Thousands of gross tons)

| Country | 1990p | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Brazil | 4,208 | 4,969 | 4,858 | 3,640 | 3,693 |
| Canada | 9,223 | 8,403 | 9,012 | 7,854 | 8,651 |
| Liberia | ... | 197 | 126 | 979 | 1,420 |
| Venezuela | 3,448 | 4,165 | 3,512 | 2,580 | 2,392 |
| Other | 917 | 1,435 | 2,356 | 1,530 | 593 |
| Total | 17,796 | 19,169 | 19,864 | 16,583 | 16,749 |

Source: U.S. Bureau of Mines, Dept. of Interior

# Table 29

## Imports for Consumption of Manganese Ore by Countries of Origin (35 Percent or More MN)*

(MN content–Net tons)

| Country | 1990p | 1989r | 1988r | 1987 | 1986 |
|---|---|---|---|---|---|
| Austrialia | 37,888 | 60,436 | 39,324 | 48,747 | 35,539 |
| Brazil | 24,081 | 93,283 | 27,004 | 29,673 | 38,728 |
| Gabon | 74,766 | 109,637 | 146,654 | 88,413 | 119,068 |
| Mexico | 4,466 | 9,828 | 35,490 | 3,712 | 14,771 |
| Republic of South Africa | 10,977 | 21,618 | ... | ... | 13,988 |
| Other Countries | 16,777 | 3,684 | 94 | 31 | 3,514 |
| Total | 168,955 | 298,486 | 248,566 | 170,576 | 225,608 |

*Comprises ore received during the year for immediate consumption plus material withdrawn from bonded warehouses; excludes imports for manufacture in bond and export.

Source: U.S. Bureau of Mines, Dept. of Interior

# Table 30
## Consumption of Coal

(Thousands of net tons)

| Year | Coke Production | Other* | Total |
|---|---|---|---|
| 1990 | 33,807 | 1,485 | 35,292 |
| 1989r | 33,708 | 1,926 | 35,634 |
| 1988 | 33,827 | 1,943 | 35,770 |
| 1987 | 30,578 | 1,960 | 32,538 |
| 1986 | 28,836 | 2,446 | 31,282 |

*Includes coal consumed in generating electric power

# Table 31
## Consumption of Fluxes in Steelmaking

(Thousands of net tons)

| Use | Flourspar | Limestone | Lime | Other Fluxes | Total |
|---|---|---|---|---|---|
| 1990 | | | | | |
| In Steelmaking Furnaces: | | | | | |
| Open Hearth | 15 | 103 | 27 | 138 | 283 |
| Basic Oxygen process | 63 | 483 | 3,342 | 152 | 4,040 |
| Electric | 39 | 142 | 1,093 | 210 | 1,484 |
| Total | 117 | 728 | 4,462 | 500 | 5,807 |
| 1989 | 128 | 1,167 | 4,389 | 588 | 6,272 |
| 1988 | 137 | 955 | 4,916 | 793 | 6,801 |
| 1987 | 130 | 878 | 4,396 | 818 | 6,222 |
| 1986 | 146 | 809 | 3,925 | 845 | 5,725 |

# Table 32

## Production and Consumption of Coke

(Thousands of net tons)

| | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Production: | | | | | |
| Metallurgical | 23,715 | 24,507 | 23,927 | 22,164 | 20,527 |
| Other Coke | 317 | 393 | 470 | 305 | 184 |
| Total Production | 24,032 | 24,900 | 24,397 | 22,469 | 20,711 |
| Consumption: | | | | | |
| Blast furnaces | 27,498 | 29,175 | 29,442 | 25,476 | 22,332 |
| Other | 107 | 87 | 101 | 86 | 256 |
| Total Consumption | 27,605 | 29,262 | 29,543 | 25,562 | 22,588 |

# Table 33

## Consumption of Ore and Agglomerated Products

(Thousands of net tons)

| | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Consumed in: | | | | | |
| Blast Furnaces: | | | | | |
| Natural Ore | 2,733 | 3,539 | 5,682 | 2,972 | 2,087 |
| Pellets | 66,703 | 67,967 | 67,268 | 54,564 | 48,072 |
| Sinter, briquettes, nodules and other | 13,477 | 15,062 | 17,082 | 15,895 | 14,574 |
| Total | 82,913 | 86,568 | 90,032 | 73,431 | 64,733 |
| Steelmaking Furnaces: | | | | | |
| Natural Ore | 58 | 157 | 214 | 136 | 72 |
| Pellets | 55 | 84 | 97 | 48 | 34 |
| Sinter, briquettes, nodules and other | 14 | ... | ... | 46 | 28 |
| Total | 127 | 241 | 311 | 230 | 134 |
| Total Consumption | 83,040 | 86,809 | 90,343 | 73,661 | 64,867 |

# Table 34

## Scrap Consumption by Grade

(Thousands of Net Tons)

| | 1990p | 1989r | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Carbon Steel: | | | | | |
| Low phosphorous plate and punching | 1,168 | 443 | 433 | 326 | 361 |
| Cut structurals and plate | 1,579 | 2,300 | 1,803 | 1,329 | 1,351 |
| No. 1 heavy melting steel | 13,399 | 14,514 | 16,366 | 14,751 | 14,525 |
| No. 2 heavy melting steel | 4,521 | 4,392 | 4,622 | 3,839 | 3,522 |
| No. 1 and electric furnace bundles | 6,182 | 6,111 | 6,665 | 6,589 | 6,909 |
| No. 2 and all other bundles | 959 | 986 | 1,057 | 902 | 881 |
| Turnings and borings | 1,226 | 1,132 | 1,202 | 984 | 1,014 |
| Slag scrap (Fe content) | 3,158 | 3,202 | 2,830 | 2,430 | 2,147 |
| Shredded or fragmentized | 4,548 | 4,742 | 5,424 | 4,842 | 4,259 |
| No. 1 busheling | 1,646 | 1,915 | 2,186 | 2,031 | 1,576 |
| All other carbon steel scrap | 7,758 | 7,711 | 8,952 | 9,139 | 8,797 |
| Total Carbon Steel | 46,144 | 47,448 | 51,540 | 47,162 | 45,342 |
| Stainless Steel | 1,020 | 1,077 | 1,271 | 1,098 | 989 |
| Alloy steel (excl. stainless) | 870 | 812 | 1,003 | 965 | 1,146 |
| Iron scrap | 656 | 910 | 991 | 806 | 1,085 |
| Other grades or types of scrap | 1,399 | 1,443 | 1,473 | 1,633 | 1,101 |
| **Total Scrap*** | **50,089** | **51,688** | **56,277** | **51,665** | **49,662** |

*U.S. Bureau of Mines indicates numbers are understated.

Data may not add to totals due to rounding.

Source: U.S. Bureau of Mines, Dept. of the Interior

# Table 35

## Consumption of Scrap and Pig Iron By Types of Furnaces

(Thousands of net tons)

| Year | | Consumed | | | Scrap Stocks on Hand Year End |
|---|---|---|---|---|---|
| | | Scrap | Pig Iron | Total | |
| 1990p | Open hearth | 1,436 | 1,360 | 2,796 | |
| | Basic oxygen process | 15,882 | 51,700 | 67,582 | |
| | Electric | 29,392 | 13 | 29,405 | |
| | Cupola | 33 | 33 | 66 | |
| | Direct castings | ... | 316 | 316 | |
| | Blast | 2,795 | ... | 2,795 | |
| | Other (incl. air furnace) | 554 | 28 | 582 | |
| | Total | 50,092 ++ | 53,450 | 103,542 | 3,607 |
| 1989r | Open hearth | 947 | 1,744 | 2,691 | |
| | Basic oxygen process | 16,712 | 54,431 | 71,143 | |
| | Electric | 30,277 | 345 | 30,622 | |
| | Cupola | ... | 49 | 49 | |
| | Direct castings | ... | 275 | 275 | |
| | Blast | 3,314 | ... | 3,314 | |
| | Other (incl. air furnace) | 436 | 10 | 446 | |
| | Total | 51,686 ++ | 56,854 | 108,540 | 3,516 |
| 1988 | Open hearth | 978 | 3,858 | 4,836 | |
| | Basic oxygen process | 17,822 | 52,027 | 69,849 | |
| | Electric | 34,208 | 248 | 34,456 | |
| | Cupola | ... | 1,029 | 1,029 | |
| | Direct castings | ... | 310 | 310 | |
| | Blast | 3,012 | ... | 3,012 | |
| | Other (incl. air furnace) | 257 | 26 | 283 | |
| | Total | 56,277 ++ | 57,498 | 113,775 | 3,514 |
| 1987 | Open hearth | 1,137 | + | 1,137 | |
| | Basic oxygen process | 15,692 | 46,741 | 62,433 | |
| | Electric | 32,044 | 1,606 | 33,650 | |
| | Cupola | 16 | 118 | 134 | |
| | Direct castings | ... | 460 | 460 | |
| | Blast | 2,345 | ... | 2,345 | |
| | Other (incl. air furnace) | 432 | 40 | 472 | |
| | Total | 51,666 ++ | 48,965 | 100,631 | 3,835 |
| 1986 | Open hearth | 1,556 | 2,325 | 3,881 | |
| | Basic oxygen process | 14,753 | 41,582 | 56,335 | |
| | Electric | 31,166 | 3 | 31,169 | |
| | Cupola | 34 | 80 | 114 | |
| | Direct castings | ... | 297 | 297 | |
| | Blast | 1,935 | ... | 1,935 | |
| | Other (incl. air furnace) | 218 | 37 | 255 | |
| | Total | 49,662 | 44,324 | 93,986 | 3,365 |

Source: U.S. Bureau of Mines. +Included with electric.
++U.S. Bureau of Mines indicates this number is understated.

# Table 36

## Consumption of Electric Power

(Millions of kilowatt hours)

| Year | Generated | Purchased | Total |
|---|---|---|---|
| 1990 | 6,771 | 37,355 | 44,126 |
| 1989 | 7,873 | 34,795 | 42,668 |
| 1988 | 6,869 | 36,566 | 43,435 |
| 1987 | 6,989 | 33,884 | 40,873 |
| 1986 | 7,910 | 30,012 | 37,922 |

# Table 37

## Consumption of Oxygen

(Millions of cubic feet in gaseous form)

| | 1990 | 1989r | 1988r | 1987r | 1986 |
|---|---|---|---|---|---|
| Purchased | 181,427 | 174,025 | 201,695 | 168,887 | 136,881 |
| Produced (a) | 17,989 | 18,924 | 19,947 | 16,703 | 16,744 |
| Total | 199,416 | 192,949 | 221,642 | 185,590 | 153,625 |
| Used in: | | | | | |
| Blast furnaces | 37,914 | 33,849 | 44,334 | 31,953 | 22,077 |
| Steelmaking: | | | | | |
| Open hearth | 5,825 | 7,467 | 7,937 | 3,867 | 5,633 |
| Basic Oxygen process | 112,720 | 112,579 | 127,383 | 112,594 | 94,168 |
| Electric | 27,233 | 20,882 | 19,923 | 18,875 | 16,226 |
| Total Steelmaking | 145,778 | 140,928 | 155,243 | 135,336 | 116,027 |
| All Other | 15,724 | 18,172 | 22,065 | 18,301 | 15,521 |
| Total | 199,416 | 192,949 | 221,642 | 185,590 | 153,625 |

(a) Produced on Companies owned or leased facilities

NOTE: Oxygen consumed in liquid form was converted to its gaseous equivalent in these statistics.

# Table 38
## Consumption of Fuels

| Year | Purpose | | | | | |
|---|---|---|---|---|---|---|
| | Blast Furnace Area | | Steel Making Furnaces | Heating and Annealing Furnaces | Other | Total |
| | Blast Furnaces | Other Uses | | | | |
| | **Fuel Oil** (Thousand of gallons) | | | | | |
| 1990 | 163,397 | 4,273 | 28,556 | 31,973 | 73,801 | 302,000 |
| 1989 | 171,392 | 672 | 44,814 | 38,651 | 81,563 | 337,092 |
| 1988 | 127,013 | 1,633 | 54,488 | 50,883 | 76,026 | 310,043 |
| 1987 | 140,225 | 3,380 | 44,114 | 34,616 | 50,203 | 272,538 |
| 1986 | 149,364 | 3,975 | 23,081 | 52,687 | 76,668 | 305,775 |
| | **Tar and Pitch** (Thousands of gallons) | | | | | |
| 1990 | 23,085 | ... | 2,736 | ... | ... | 25,821 |
| 1989 | 32,350 | ... | 2,616 | ... | ... | 34,966 |
| 1988 | 43,417 | ... | 4,037 | ... | ... | 47,454 |
| 1987 | 27,945 | ... | 925 | ... | ... | 28,870 |
| 1986 | 5,248 | ... | ... | ... | ... | 5,248 |

# Table 38 (continued)
## Consumption of Fuels

| Year | Purpose: Blast Furnace Area — Blast Furnaces | Purpose: Blast Furnace Area — Other Uses* | Purpose: Steel Making Furnaces | Purpose: Heating and Annealing Furnaces | Purpose: Other | Total |
|---|---|---|---|---|---|---|
| **Natural Gas** (Millions of cubic feet based on 1,000 B.T.U. per cubic foot) | | | | | | |
| 1990 | 56,723 | 6,934 | 15,905 | 202,271 | 111,814 | 393,647 |
| 1989r | 56,673 | 5,640 | 13,884 | 229,215 | 111,062 | 416,474 |
| 1988 | 52,046 | 6,045 | 20,469 | 255,338 | 105,675 | 439,573 |
| 1987 | 37,583 | 8,165 | 17,395 | 233,725 | 129,097 | 425,965 |
| 1986 | 23,650 | 5,991 | 15,182 | 175,295 | 88,793 | 308,911 |
| **Coke Oven Gas** (Millions of cubic feet based on 500 B.T.U. per cubic foot) | | | | | | |
| 1990 | 22,033 | 155,872 | 3,851 | 93,377 | 113,650 | 388,783 |
| 1989r | 19,744 | 158,064 | 3,542 | 95,254 | 109,919 | 386,523 |
| 1988r | 21,695 | 158,260 | 3,924 | 99,760 | 112,011 | 395,650 |
| 1987 | 16,768 | 143,861 | 2,211 | 97,122 | 90,817 | 350,779 |
| 1986 | 16,705 | 131,828 | 1,896 | 86,945 | 74,741 | 312,115 |
| **Blast Furnace Gas** (Millions of cubic feet based on 95 B.T.U. per cubic foot) | | | | | | |
| 1990 | 770,131 | 552,003 | ... | 12,976 | 888,562 | 2,223,672 |
| 1989 | 854,545 | 408,694 | ... | 25,736 | 1,085,995 | 2,374,970 |
| 1988 | 864,500 | 422,927 | ... | 27,700 | 1,102,307 | 2,417,434 |
| 1987 | 860,067 | 351,107 | ... | 38,217 | 1,077,324 | 2,326,715 |
| 1986 | 585,703 | 334,935 | 887 | 30,787 | 902,156 | 1,854,468 |

*Includes 106,669 coke oven underfiring in 1986, 125,681 in 1987, 139,502 in 1988, 137,111 in 1989, and 137,976 in 1990.

*Includes coke oven underfiring

CANADIAN STATISTICS

# Table 39

## Income, Dividends, Return on Sales and Stockholders' Equity)

**(Millions of Canadian dollars)**

(Reported by companies comprising 71% of 1990 Canadian Raw Steel Production)

| | 1990 | 1989r | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| **REVENUES:** | | | | | |
| Sales (Net Billing Value of Products Shipped and other services) | $5,813.4 | $7,117.9 | $6,124.7 | $6,235.9 | $5,642.4 |
| Interest, Dividends & Other Income | 16.3 | 64.9 | 52.2 | 53.8 | 75.0 |
| Total Revenue | $5,829.7 | $7,182.8 | $6,176.9 | $6,289.8 | $5,717.4 |
| **Costs Applied to Billings and Other Services:** | | | | | |
| Employment Costs | 1,859.1 | 2,169.4 | 1,823.6 | 1,978.9 | 1,355.0 |
| Materials, Supplies, Freight and Other Services | 3,508.3 | 3,862.4 | 3,310.9 | 3,416.1 | 3,691.6 |
| Depreciation, Depletion & Amortization | 399.5 | 386.4 | 355.1 | 294.5 | 275.5 |
| Interest & Other Financial Costs | 265.3 | 230.5 | 164.8 | 175.0 | 176.9 |
| Taxes Other than Income | ... | ... | ... | 26.4 | 27.1 |
| Loss or (Gain) on Sales of Assets | ... | ... | ... | 4.6 | ... |
| Loss or (Gain) Attributable to Shutdown or Restructuring of Facilities | 42.0 | 72.1 | ... | ... | ... |
| Unusual Items | 793.2 | ... | ... | ... | ... |
| Taxes on Income | (156.8) | 130.7 | 171.6 | 133.3 | 61.9 |
| Total Costs | $6,710.7 | $6,851.5 | $5,826.0 | $6,028.8 | $5,588.1 |
| Extraordinary and Other Items Net of Taxes | ... | ... | (3.3) | 5.0 | (77.6) |
| **NET INCOME** | ($881.0) | $ 331.1 | $ 347.6 | $ 266.0 | $ 51.7 |
| Percent Return on Sales | (15.2) | 4.6 | 5.7 | 4.3 | 0.9 |
| Percent Return on Stockholders' Equity + | (26.0) | 10.4 | 9.8 | 7.3 | 1.4 |
| Employees | 35,300 | 40,500 | 40,700 | 40,800 | 39,900 |

+ Based on stockholders' equity as of Dec. 31 of the prior year.

# Table 40

## Balance Sheet

(Millions of Canadian Dollars)

Reported by companies comprising 71% of 1990 Canadian Raw Steel Production

| ASSETS | 1990 | 1989r | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Current Assets: | | | | | |
| Cash & Marketable Securities | ($114.1) | $ 124.2 | $ 155.4 | $ 311.6 | $516.4 |
| Receivables, Less Allowances | 576.0 | 857.4 | 936.9 | 888.6 | 787.1 |
| Inventories | 1,399.2 | 2,112.2 | 1,831.2 | 1,550.2 | 1,618.6 |
| Other Current Assets | 23.0 | 6.7 | 6.1 | 26.1 | 14.1 |
| Total Current Assets | $1,884.2 | $3,100.5 | $2,929.6 | $2,776.5 | $2,936.1 |
| Long-Term Receivables & Other Investments | 229.5 | 198.3 | 188.7 | 337.1 | 190.6 |
| Fixed Assets: | | | | | |
| Property, Plant & Equipment | 7,413.3 | 8,477.4 | 8,128.0 | 8,472.2 | 7,995.1 |
| Less-Depreciation, Depletion & Amortization | 3,524.7 | 3,394.6 | 3,134.5 | 3,829.4 | 3,631.4 |
| Net Fixed Assets | 3,888.6 | 5,082.8 | 4,993.5 | 4,642.8 | 4,363.7 |
| Other Assets | 225.0 | 160.0 | 68.4 | 72.7 | 81.9 |
| Total Assets | $6,227.2 | $8,541.5 | $8,180.2 | $7,829.1 | $7,572.3 |
| LIABILITIES & STOCKHOLDERS' EQUITY | | | | | |
| Current Liabilities: | | | | | |
| Accounts Payable | $ 727.3 | $1,051.7 | $ 943.5 | $ 888.4 | $ 806.2 |
| Accrued taxes incl. Federal Income Taxes | 51.9 | 108.6 | 93.0 | 60.5 | 83.3 |
| Long-Term Debt Maturing Within One Year | 46.9 | 248.0 | 71.6 | 38.8 | 66.7 |
| All Other Current Liabilities | 44.2 | 31.6 | 28.9 | 35.4 | 37.5 |
| Total Current Liabilities | $ 870.3 | $1,439.9 | $1,137.1 | $1,023.2 | $ 993.7 |
| Long-Term Debt Less Amount Maturing Within One Year | 1,696.7 | 1,950.5 | 2,033.2 | 1,772.8 | 1,586.6 |
| Deferred Income Tax | 723.1 | 989.9 | * | * | * |
| All Other Long-Term Liabilities & Reserves | 206.6 | 391.3 | 1,439.6 | 1,138.0 | 931.8 |
| Minority Interest in Companies not Wholly Owned | 0.5 | 34.0 | 36.3 | ... | ... |
| Total Liabilities | $4,367.5 | $4,805.6 | $4,646.2 | $3,934.0 | $3,512.1 |
| Redeemable Preferred Stock (RPS) | 524.2 | 529.7 | 341.2 | 341.5 | 421.6 |
| Stockholders' Equity | $1,335.5 | $3,206.3 | $3,192.8 | $3,553.7 | $3,638.6 |
| Total Liabilities, RPS & Stockholders' Equity | $6,227.2 | $8,541.5 | $8,180.2 | $7,829.1 | $7,572.3 |

*Included in All Other Long-Term Liabilities & Reserves.

# Table 41

## Production of Pig Iron

(Net Tons)

| Year | Pig Iron |
|---|---|
| 1990 | 8,097,636 |
| 1989 | 11,176,114 |
| 1988 | 10,469,936 |
| 1987 | 10,713,572 |
| 1986 | 10,194,655 |
| 1985 | 10,654,200 |
| 1984 | 10,629,765 |
| 1983 | 9,442,986 |
| 1982 | 8,818,564 |
| 1981 | 10,740,258 |

Source: Statistics Canada

# Table 42

## Raw Steel Production

(Net Tons)

| Year | Open Hearth | Basic Oxygen Process | Electric | Total | Steel for Castings* | Continuous Cast Inc. in Total |
|---|---|---|---|---|---|---|
| 1990 | ** | 8,461,455 | 4,969,410 | 13,430,865 | 106,190 | 10,387,708 |
| 1989 | ** | 11,693,580 | 5,207,370 | 16,900,950 | 138,557 | 12,963,568 |
| 1988 | ** | 10,942,723 | 5,291,785 | 16,234,508 | 151,770 | 11,353,591 |
| 1987 | ** | 11,262,068 | 4,855,940 | 16,118,008 | 126,639 | 7,953,948 |
| 1986 | ** | 10,955,796 | 4,462,705 | 15,418,501 | 103,432 | 7,116,551 |
| 1985 | ** | 11,633,276 | 4,385,334 | 16,018,610 | 116,293 | 7,037,419 |
| 1984 | ** | 11,832,642 | 4,225,487 | 16,058,129 | 144,804 | 6,225,060 |
| 1983 | 1,014,966 | 9,364,629 | 3,650,893 | 14,030,488 | 114,752 | 5,292,981 |
| 1982 | 1,814,266 | 7,989,644 | 3,161,669 | 12,965,579 | 120,257 | 4,293,022 |
| 1981 | 2,203,771 | 9,567,252 | 4,363,641 | 16,134,664 | 191,747 | 5,258,275 |

*Includes only that portion of the steel for castings which was produced in foundries operated by companies producing steel ingots.

**Included in Basic Oxygen Process

Source: Statistics Canada

# Table 43

## Net Shipments of Rolled Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Ingots and semifinished shapes | 528,457 | D | 433,314 | 388,123 | 297,654 |
| Rails and heavy structural shapes | 377,250 | 587,685 | 625,454 | 678,843 | 605,989 |
| Wire rods | 1,134,789 | 1,301,338 | 1,279,211 | 1,281,499 | 1,255,526 |
| Structural shapes intermediate | 341,804 | 341,987 | 387,401 | 405,817 | 362,852 |
| Bar sized shapes | 131,826 | 155,593 | 230,535 | 236,446 | 208,597 |
| Concrete reinforcing bars | 780,165 | 822,221 | 718,125 | 723,556 | 603,881 |
| Other hot rolled bars | 1,122,549 | 1,353,427 | 1,376,153 | 1,316,790 | 1,203,713 |
| Tie plates and track material | 17,239 | 25,237 | 28,325 | 24,243 | 42,264 |
| Plate (incl. plates for pipe & tube) | 2,134,682 | 2,358,652 | 2,529,558 | 1,992,122 | 1,546,100 |
| Hot rolled sheets & strip | 2,888,531 | 3,569,827 | 3,125,045 | 3,246,182 | 3,130,728 |
| Cold finished bars | 125,645 | 138,828 | 171,310 | 157,802 | 144,003 |
| Cold reduced sheets & strip, cold rolled other | 1,330,177 | 1,586,169 | 1,663,477 | 1,578,544 | 1,560,742 |
| Tin plate & T.F.S. | 458,542 | D | 504,894 | 539,035 | 521,592 |
| Galvanized sheets | 1,374,350 | 1,611,294 | 1,545,374 | 1,483,977 | 1,371,207 |
| Total net shipments | 12,746,006 | 14,689,038 | 14,618,176 | 14,052,979 | 12,854,848 |

# Table 43 (continued)

## Net Shipments of Rolled Steel Products

(Net Tons)

| Products | 1985 | 1984 | 1983 | 1982 | 1981 |
|---|---|---|---|---|---|
| Ingots and semifinished shapes | 406,540 | 594,400 | 824,174 | 578,736 | 1,098,708 |
| Rails and heavy structural shapes | 586,312 | 573,348 | 505,527 | 454,257 | 925,608 |
| Wire rods | 1,154,729 | 1,199,146 | 1,129,709 | 989,851 | 1,088,166 |
| Structural shapes intermediate | 352,425 | 324,346 | 287,179 | 238,106 | 391,404 |
| Bar sized shapes | 195,410 | 181,368 | 140,442 | 127,372 | 182,561 |
| Concrete reinforcing bars | 622,082 | 523,279 | 580,257 | 598,187 | 750,665 |
| Other hot rolled bars | 1,253,544 | 1,208,846 | 937,983 | 830,121 | 1,126,657 |
| Tie plates and track material | 54,163 | 75,271 | 55,080 | 63,033 | 74,934 |
| Plate (incl. plates for pipe & tube) | 1,627,336 | 1,635,150 | 1,118,416 | 1,237,498 | 1,987,162 |
| Hot rolled sheets & strip | 3,020,767 | 3,047,059 | 2,328,771 | 2,203,371 | 2,506,978 |
| Cold finished bars | 130,642 | 135,967 | 99,227 | 75,258 | 104,763 |
| Cold reduced sheets & strip, cold rolled other | 1,559,933 | 1,521,493 | 1,396,012 | 1,339,205 | 1,941,128 |
| Tin plate & T.F.S. | 554,255 | 539,990 | 570,873 | 545,214 | * |
| Galvanized sheets | 1,336,334 | 1,182,101 | 1,046,692 | 1,025,365 | 1,047,999 |
| Total net shipments | 12,854,472 | 12,741,764 | 11,020,342 | 10,305,574 | 13,226,733 |

Source: Statistics Canada

*Included in cold reduced sheets & strip.

# Table 44

## Imports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| **Steel Mill Products:** | | | | | |
| Ingots, blooms, billets, etc. | 305,589 | 720,625 | 1,479,448 | 799,904 | 280,685 |
| Wire rods | 205,784 | 266,840 | 223,730 | 275,971 | 315,050 |
| Structural shapes (3" & over) | 231,356 | 223,193 | 322,149 | 208,865 | 164,695 |
| Sheet piling | 5,329 | 14,357 | 9,981 | 3,970 | 2,181 |
| Plates | 464,065 | 298,809 | 379,977 | 224,489 | 184,976 |
| Rail and track accessories | 84,140 | 80,094 | 90,510 | 75,230 | 92,499 |
| Concrete reinforcing bars | 57,707 | 64,250 | 61,396 | 47,112 | 9,545 |
| Bar shapes under 3" | 30,084 | 23,881 | 43,486 | 58,853 | 52,109 |
| Bars-hot rolled | 265,123 | 156,508 | 240,277 | 120,479 | 98,273 |
| -cold finished | 36,599 | 36,721 | 28,530 | 19,886 | 20,490 |
| Pipe and Tubing | 387,742 | 316,652 | 507,144 | 310,550 | 275,231 |
| Wire drawn | + | + | + | 67,995 | 66,758 |
| Barbed wire | 972 | 775 | 859 | 1,227 | 1,564 |
| Wire nails | 16,543 | 18,342 | 28,199 | 19,282 | 17,821 |
| Tin plate | 10,099 | 6,024 | 5,244 | 3,308 | 4,972 |
| Terne plate | 13,557 | 9,727 | 13,232 | 11,094 | 17,296 |
| Sheets-hot rolled | 277,306 | 133,919 | 165,966 | 203,751 | 194,229 |
| -cold rolled | 181,301 | 153,222 | 195,354 | 248,130 | 281,579 |
| Sheet & strip(coated incl. galvanized) | 410,643 | 310,226 | 342,627 | 311,514 | 266,757 |
| All other Sheet and strip | 108,715 | 65,543 | 74,011 | 33,546 | 30,557 |
| Total Steel Mill Products | 3,092,654 | 2,899,708 | 4,212,120 | 3,045,156 | 2,377,267 |
| **Other Steel Products:** | | | | | |
| Steel castings and forgings | N.A. | N.A. | N.A. | 18,232 | 17,090 |
| Bars and rods, fabricated | N.A. | N.A. | N.A. | 5,748 | 6,336 |
| Plates, flanged and dished | N.A. | N.A. | N.A. | 1,755 | 1,694 |
| Plate, sheets and strip for saws | N.A. | N.A. | N.A. | 2,359 | 2,276 |
| Plates, fabricated | N.A. | N.A. | N.A. | 3,974 | 4,985 |
| Sheet and strip, fabricated | N.A. | N.A. | N.A. | 16,403 | 18,615 |
| Structural shapes, fabricated | N.A. | N.A. | N.A. | 8,320 | 9,156 |
| Wire rope & strand++ | 67,384 | 68,291 | 139,174 | 27,227 | 29,491 |
| Grinding balls | 55,146 | 51,314 | 54,147 | 50,218 | 27,564 |
| Total Other Steel Products | 122,530 | 119,605 | 193,321 | 134,236 | 117,207 |
| Total Steel Products | 3,215,184 | 3,019,313 | 4,405,441 | 3,179,392 | 2,494,474 |
| **Iron Products and Ferroalloys:** | | | | | |
| Pig iron | 20,440 | 16,744 | 31,058 | 10,796 | 13,322 |
| Sponge iron | 49 | 1,200 | 1,969 | 1,736 | 1,783 |
| Castings and forgings | N.A. | N.A. | N.A. | 35,214 | 29,663 |
| Pipes and tubes, cast iron | N.A. | N.A. | N.A. | 11,963 | 2,674 |
| Ferroalloys | 133,453 | 157,558 | 154,599 | 122,788 | 96,094 |
| Total Iron Products and Ferroalloys | 153,942 | 175,502 | 187,626 | 182,497 | 143,536 |
| Grand Total | 3,369,126 | 3,194,815 | 4,593,067 | 3,361,889 | 2,638,010 |

Source: Statistics Canada +Included in other steel products wire rope. ++Includes wire drawn.

# Table 45

## Exports of Iron and Steel Products

(Net Tons)

| Products | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Steel Mill Products: | | | | | |
| Ingots, blooms, billets, etc. | 360,740 | 30,551 | 198,767 | 114,742 | 257,307 |
| Wire rods | 395,521 | 457,564 | 374,289 | 392,580 | 397,695 |
| Structural shapes (3" & over) | 228,534 | 156,304 | 282,450 | 315,446 | 371,557 |
| Plates | 355,525 | 402,421 | 448,766 | 435,840 | 213,232 |
| Rail and track accessories | 80,839 | 97,917 | 174,017 | 190,204 | 75,001 |
| Bars-hot rolled | 337,322 | 442,771 | 551,258 | 388,296 | 329,567 |
| -cold finished | 40,300 | 47,864 | 84,401 | 49,062 | 46,181 |
| Pipe and Tubing | 436,185 | 509,732 | 520,159 | 532,858 | 397,387 |
| Wire plain and coated | 174,712 | 224,178 | 290,613 | 214,753 | 212,956 |
| Wire nails | N.A. | N.A. | 83,523 | 83,969 | 106,867 |
| Sheets and strip | 1,561,928 | 1,500,855 | 873,677 | 1,214,529 | 1,136,379 |
| Sheet and strip galvanized | 216,027 | 224,548 | 182,327 | 277,826 | 270,591 |
| Total Steel Mill Products | 4,187,633 | 4,094,705 | 4,064,247 | 4,210,105 | 3,814,720 |
| Other Steel Products: | | | | | |
| Bars and rods, fabricated | N.A. | N.A. | N.A. | 15,131 | 25,025 |
| Grinding balls | N.A. | N.A. | 972 | 801 | 38 |
| Castings and forgings | N.A. | N.A. | 7,810 | 38,504 | 41,213 |
| Wire rope & strand | 16,747 | 22,662 | 18,979 | 7,276 | 5,922 |
| Total Other Steel Products | 16,747 | 22,662 | 27,761 | 61,712 | 72,198 |
| Total Steel Products | 4,204,380 | 4,117,367 | 4,092,008 | 4,271,817 | 3,886,918 |
| Iron Products and Ferroalloys: | | | | | |
| Pig iron | 247,693 | 461,090 | 391,300 | 492,680 | 572,720 |
| Sponge iron | N.A. | N.A. | N.A. | 57,270 | 40,786 |
| Iron castings | N.A. | N.A. | N.A. | 114,297 | 91,288 |
| Pipes and tubes, cast iron | N.A. | 4,330 | 5,573 | 3,763 | 1,330 |
| Ferroalloys | 83,062 | 62,136 | 70,245 | 67,547 | 112,238 |
| Total Iron Products and Ferroalloys | 330,755 | 527,556 | 467,118 | 735,557 | 818,362 |
| Grand Total | 4,535,135 | 4,644,923 | 4,559,126 | 5,007,374 | 4,705,280 |

Source: Statistics Canada

# Table 46

## Consumption of Coal

(Thousands of net tons)

| Year | Total |
|---|---|
| 1990 | 5,371 |
| 1989 | 6,478 |
| 1988 | 6,788 |
| 1987 | 6,854 |
| 1986 | 6,674 |

# Table 47

## Consumption of Coke

(Thousands of net tons)

| Year | In Blast Furnaces | Total |
|---|---|---|
| 1990 | 3,250 | 3,253 |
| 1989 | 4,640 | 4,648 |
| 1988 | 4,487 | 4,490 |
| 1987 | 4,809 | 4,809 |
| 1986 | 4,578 | 4,585 |

# Table 48

## Consumption of Fuel Oil

(Thousands of gallons)

| Year | In Melting Furnaces | In Heating and Annealing Furnaces | Other Purposes | Total |
|---|---|---|---|---|
| 1990 | 42,694 | 2,192 | 13,076 | 57,962 |
| 1989 | 86,559 | 2,977 | 10,785 | 100,321 |
| 1988 | 54,908 | 6,943 | 16,176 | 78,027 |
| 1987 | 45,152 | 11,563 | 13,949 | 70,664 |
| 1986 | 36,763 | 11,096 | 13,276 | 61,135 |

# Table 49

## Consumption of Fluxes in Steelmaking Furnaces

(Thousands of net tons)

| | Flourspar | Limestone | Lime | Other Fluxes | Total |
|---|---|---|---|---|---|
| 1990 | 13 | 33 | 531 | 151 | 728 |
| 1989 | 17 | 65 | 744 | 266 | 1,092 |
| 1988 | 17 | 64 | 700 | 230 | 1,011 |
| 1987 | 20 | 57 | 700 | 217 | 994 |
| 1986 | 17 | 57 | 805 | 197 | 1,076 |

# Table 50

## Consumption of Oxygen

(Millions of cubic feet)

| | 1990 | 1989 | 1988 | 1987 | 1986 |
|---|---|---|---|---|---|
| Consumption by Uses: | | | | | |
| Blast furnaces | 966 | 3,617 | 1,574 | 1,790 | 1,695 |
| Steelmaking furnaces | 18,083 | 24,388 | 22,223 | 22,328 | 21,791 |
| All other | 1,765 | 2,616 | 2,901 | 3,689 | 3,173 |
| Total | 20,814 | 30,621 | 26,698 | 27,807 | 26,659 |

# Table 51

## Consumption of Pig Iron

(Thousands of net tons)

| Year | Steelmaking | Other Than Steelmaking | Total |
|---|---|---|---|
| 1990 | 7,128 | 117 | 7,245 |
| 1989 | 10,036 | 112 | 10,148 |
| 1988 | 9,525 | 91 | 9,616 |
| 1987 | 9,843 | 48 | 9,891 |
| 1986 | 9,374 | 41 | 9,415 |

# WORLD STATISTICS

The following tables covering production of foreign countries were compiled from reports issued by Statistics Canada, and the International Iron and Steel Institute.

# Table 52

## World Production of Pig Iron by Countries

(Thousands of Net Tons)

| Countries | 1990p Tons | % | 1989r Tons | % | 1988 Tons | % | 1987 Tons | % | 1986 Tons | % |
|---|---|---|---|---|---|---|---|---|---|---|
| North America | | | | | | | | | | |
| United States | 54,750 | 9.4 | 55,873 | 9.3 | 55,745 | 9.5 | 48,410 | 8.7 | 43,952 | 8.0 |
| Canada | 8,202 | 1.4 | 11,176 | 1.9 | 10,470 | 1.8 | 10,714 | 1.9 | 10,195 | 1.9 |
| Total | 62,952 | 10.8 | 67,049 | 11.1 | 66,215 | 11.3 | 59,124 | 10.7 | 54,147 | 9.9 |
| Latin America | | | | | | | | | | |
| Argentina | 2,114 | ... | 2,391 | ... | 1,830 | ... | 1,931 | ... | 1,791 | ... |
| Brazil | 17,667 | ... | 26,855 | ... | 25,831 | ... | 23,518 | ... | 22,435 | ... |
| Chile | 744 | ... | 748 | ... | 858 | ... | 680 | ... | 653 | ... |
| Columbia | 356 | ... | 327 | ... | 349 | ... | 359 | ... | 349 | ... |
| Mexico | 4,018 | ... | 3,560 | ... | 4,011 | ... | 4,076 | ... | 4,120 | ... |
| Paraguay | 64 | ... | 67 | ... | 88 | ... | ... | ... | ... | ... |
| Peru | 171 | ... | 280 | ... | 223 | ... | 197 | ... | 238 | ... |
| Venezuela | 346 | ... | 502 | ... | 554 | ... | 519 | ... | 541 | ... |
| Total | 25,480 | 4.4 | 34,731 | 5.8 | 33,744 | 5.7 | 31,281 | 5.6 | 30,128 | 5.5 |
| Europe | | | | | | | | | | |
| Western Europe | | | | | | | | | | |
| EEC | | | | | | | | | | |
| Belgium | 10,402 | ... | 9,836 | ... | 10,124 | ... | 9,082 | ... | 8,869 | ... |
| Luxembourg | 2,916 | ... | 2,959 | ... | 2,777 | ... | 2,541 | ... | 2,921 | ... |
| France | 15,889 | ... | 16,614 | ... | 16,299 | ... | 14,825 | ... | 15,412 | ... |
| Italy | 13,098 | ... | 13,002 | ... | 12,540 | ... | 12,495 | ... | 13,115 | ... |
| Netherlands | 5,465 | ... | 5,691 | ... | 5,505 | ... | 5,043 | ... | 5,101 | ... |
| Portugal | 374 | ... | 416 | ... | 601 | ... | 584 | ... | 579 | ... |
| Spain | 6,043 | ... | 6,101 | ... | 5,171 | ... | 5,308 | ... | 5,300 | ... |
| West Germany | 33,174 | ... | 36,130 | ... | 35,773 | ... | 30,992 | ... | 31,518 | ... |
| United Kingdom | 13,579 | ... | 13,931 | ... | 14,392 | ... | 13,246 | ... | 10,676 | ... |
| Total EEC | 100,942 | 17.4 | 104,679 | 17.4 | 103,182 | 17.6 | 94,115 | 17.0 | 93,491 | 17.1 |
| Other Western Europe | | | | | | | | | | |
| Austria | 3,805 | ... | 4,214 | ... | 4,040 | ... | 3,804 | ... | 3,692 | ... |
| Finland | 2,517 | ... | 2,518 | ... | 2,395 | ... | 2,274 | ... | 2,180 | ... |
| Norway | 60 | ... | 298 | ... | 405 | ... | 401 | ... | 622 | ... |
| Sweden | 3,016 | ... | 2,908 | ... | 2,747 | ... | 2,551 | ... | 2,684 | ... |
| Switzerland | 77 | ... | 77 | ... | 77 | ... | 77 | ... | 87 | ... |
| Turkey | 5,321 | ... | 3,867 | ... | 4,918 | ... | 4,484 | ... | 4,115 | ... |
| Yugoslavia | 2,550 | ... | 3,194 | ... | 3,214 | ... | 3,161 | ... | 3,381 | ... |
| Total Other Western Europe | 17,345 | 3.0 | 17,075 | 2.8 | 17,796 | 3.0 | 16,753 | 3.0 | 16,761 | 3.1 |
| Total Western Europe | 118,287 | 20.4 | 121,754 | 20.2 | 120,978 | 20.6 | 110,868 | 20.0 | 110,252 | 20.2 |

# Table 52 (continued)

## World Production of Pig Iron by Countries

(Thousands of Net Tons)

| Countries | 1990p | | 1989r | | 1988 | | 1987 | | 1986 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Tons | % | Tons | % | Tons | % | Tons | % | Tons | % |
| Eastern Europe | | | | | | | | | | |
| Bulgaria | 1,378 | ... | 1,636 | ... | 1,636 | ... | 1,825 | ... | 1,769 | ... |
| Czechoslovakia | 10,656 | ... | 10,925 | ... | 10,699 | ... | 10,789 | ... | 10,552 | ... |
| East Germany | 2,380 | ... | 3,011 | ... | 3,071 | ... | 3,024 | ... | 3,005 | ... |
| Hungary | 1,866 | ... | 2,151 | ... | 2,315 | ... | 2,325 | ... | 2,272 | ... |
| Poland | 9,206 | ... | 10,459 | ... | 11,314 | ... | 11,048 | ... | 11,129 | ... |
| Rumania | 7,165 | ... | 9,977 | ... | 10,472 | ... | 10,472 | ... | 10,283 | ... |
| U.S.S.R. | 121,456 | ... | 125,592 | ... | 125,662 | ... | 125,552 | ... | 125,486 | ... |
| Total Eastern Europe | 154,107 | 26.5 | 163,751 | 27.2 | 165,169 | 28.1 | 165,035 | 29.7 | 164,496 | 30.1 |
| Total Europe | 272,394 | 46.9 | 285,505 | 47.5 | 286,147 | 48.7 | 275,903 | 49.7 | 274,748 | 50.3 |
| Africa | | | | | | | | | | |
| Zimbabwe | 594 | ... | 554 | ... | 601 | ... | 617 | ... | 710 | ... |
| South Africa,Republic of | 6,897 | ... | 7,212 | ... | 6,802 | ... | 6,963 | ... | 6,365 | ... |
| Algeria | 1,433 | ... | 1,433 | ... | 1,433 | ... | 1,433 | ... | 1,543 | ... |
| Tunisia | 154 | ... | 154 | ... | 141 | ... | 171 | ... | 157 | ... |
| Other | 22 | ... | 22 | ... | 22 | ... | 22 | ... | 22 | ... |
| Total | 9,100 | 1.6 | 9,375 | 1.6 | 8,999 | 1.5 | 9,206 | 1.7 | 8,797 | 1.6 |
| Middle East | | | | | | | | | | |
| Iran | 276 | ... | 276 | ... | 276 | ... | 276 | ... | 276 | ... |
| United Arab Republic (Egypt) | 1,213 | ... | 1,213 | ... | 1,226 | ... | 1,047 | ... | 1,047 | ... |
| Total | 1,489 | 0.3 | 1,489 | 0.2 | 1,502 | 0.3 | 1,323 | 0.2 | 1,323 | 0.2 |
| Far East | | | | | | | | | | |
| India | 13,939 | ... | 13,309 | ... | 12,912 | ... | 12,040 | ... | 11,590 | ... |
| Japan | 88,435 | ... | 88,400 | ... | 87,407 | ... | 80,929 | ... | 82,288 | ... |
| Pakistan | 1,003 | ... | 1,003 | ... | 998 | ... | 998 | ... | 987 | ... |
| South Korea | 16,908 | ... | 16,365 | ... | 13,865 | ... | 12,188 | ... | 9,924 | ... |
| Taiwan | 6,053 | ... | 6,371 | ... | 6,048 | ... | 4,032 | ... | 4,123 | ... |
| Thailand | 11 | ... | 11 | ... | 11 | ... | 11 | ... | 11 | ... |
| China (Mainland) | 69,011 | ... | 64,154 | ... | 56,217 | ... | 55,335 | ... | 55,049 | ... |
| North Korea | 6,504 | ... | 6,504 | ... | 6,504 | ... | 6,504 | ... | 6,393 | ... |
| Total | 201,864 | 34.8 | 196,117 | 32.6 | 183,962 | 31.3 | 172,037 | 31.0 | 170,365 | 31.3 |
| Oceania | | | | | | | | | | |
| Australia | 6,754 | ... | 6,706 | ... | 6,308 | ... | 6,150 | ... | 6,452 | ... |
| New Zealand | 595 | ... | 476 | ... | 461 | ... | ... | ... | ... | ... |
| Total | 7,349 | 1.3 | 7,182 | 1.2 | 6,769 | 1.2 | 6,150 | 1.1 | 6,452 | 1.2 |
| Total World | 580,628 | 100.0 | 601,448 | 100.0 | 587,338 | 100.0 | 555,024 | 100.0 | 545,960 | 100.0 |

NOTE: Detail does not necessarily add to totals

Source: United States–American Iron and Steel Institute; Canada–Statistics Canada; Other Countries–International Iron and Steel Institute.

# Table 53

## World Production of Raw Steel by Countries

(Thousands of Net Tons)

| Countries | 1990p Tons | % | 1989r Tons | % | 1988r Tons | % | 1987r Tons | % | 1986r Tons | % |
|---|---|---|---|---|---|---|---|---|---|---|
| North America | | | | | | | | | | |
| United States | 98,906 | 11.6 | 97,943 | 11.3 | 99,924 | 11.6 | 89,151 | 11.0 | 81,606 | 10.4 |
| Canada | 13,431 | 1.6 | 16,901 | 2.0 | 16,235 | 1.9 | 16,118 | 2.0 | 15,419 | 2.0 |
| Total | 112,337 | 13.2 | 114,844 | 13.3 | 116,159 | 13.5 | 105,269 | 13.0 | 97,025 | 12.3 |
| Latin America | | | | | | | | | | |
| Argentina | 3,991 | ... | 4,291 | ... | 4,002 | ... | 4,005 | ... | 3,566 | ... |
| Brazil | 22,688 | ... | 27,576 | ... | 27,179 | ... | 24,502 | ... | 23,405 | ... |
| Chile | 852 | ... | 896 | ... | 991 | ... | 800 | ... | 778 | ... |
| Columbia | 783 | ... | 778 | ... | 785 | ... | 759 | ... | 697 | ... |
| Cuba | 298 | ... | 370 | ... | 346 | ... | 443 | ... | 453 | ... |
| Mexico | 9,753 | ... | 8,653 | ... | 8,575 | ... | 8,424 | ... | 7,964 | ... |
| Peru | 287 | ... | 442 | ... | 530 | ... | 563 | ... | 559 | ... |
| Venezuela | 3,546 | ... | 3,737 | ... | 4,023 | ... | 4,077 | ... | 3,749 | ... |
| Others | 604 | ... | 623 | ... | 651 | ... | 615 | ... | 559 | ... |
| Total | 42,802 | 5.0 | 47,367 | 5.5 | 47,086 | 5.5 | 44,191 | 5.4 | 41,732 | 5.3 |
| Europe | | | | | | | | | | |
| Western Europe | | | | | | | | | | |
| EEC | | | | | | | | | | |
| Belgium | 12,557 | ... | 12,068 | ... | 12,364 | ... | 10,784 | ... | 10,710 | ... |
| Luxembourg | 3,925 | ... | 4,102 | ... | 4,036 | ... | 3,640 | ... | 4,084 | ... |
| Denmark | 671 | ... | 688 | ... | 716 | ... | 668 | | 697 | |
| France | 20,962 | ... | 21,315 | ... | 21,078 | ... | 19,503 | ... | 19,684 | ... |
| West Germany | 42,366 | ... | 45,275 | ... | 45,220 | ... | 39,956 | ... | 40,933 | ... |
| Ireland | 359 | ... | 357 | ... | 299 | ... | 243 | ... | 229 | ... |
| Italy | 28,041 | ... | 27,756 | ... | 26,191 | ... | 25,153 | ... | 25,336 | ... |
| Netherlands | 5,970 | ... | 6,262 | ... | 6,082 | ... | 5,602 | ... | 5,823 | ... |
| United Kingdom | 19,740 | ... | 20,657 | ... | 20,889 | ... | 19,195 | ... | 16,231 | ... |
| Greece | 1,087 | ... | 1,056 | ... | 1,057 | ... | 1,000 | ... | 1,113 | ... |
| Portugal | 746 | ... | 804 | ... | 881 | ... | 795 | ... | 795 | ... |
| Spain | 14,005 | ... | 14,071 | ... | 13,102 | ... | 12,887 | ... | 13,098 | ... |
| Total EEC | 150,431 | 17.7 | 154,410 | 17.8 | 151,915 | 17.7 | 139,426 | 17.2 | 138,730 | 17.6 |
| Other Western Europe | | | | | | | | | | |
| Austria | 4,731 | ... | 5,201 | ... | 5,026 | ... | 4,741 | ... | 4,731 | ... |
| Finland | 3,154 | ... | 3,220 | ... | 3,084 | ... | 2,942 | ... | 2,851 | ... |
| Norway | 423 | ... | 702 | ... | 1,003 | ... | 938 | ... | 922 | ... |
| Sweden | 4,911 | ... | 5,172 | ... | 5,268 | ... | 5,065 | ... | 5,198 | ... |
| Switzerland | 1,069 | ... | 1,010 | ... | 1,089 | ... | 955 | ... | 1,185 | ... |
| Turkey | 10,221 | ... | 8,655 | ... | 8,799 | ... | 7,765 | ... | 6,534 | ... |
| Yugoslavia | 4,039 | ... | 4,960 | ... | 4,946 | ... | 4,814 | ... | 4,982 | ... |
| Total Other Western Europe | 28,546 | 3.4 | 28,920 | 3.3 | 29,215 | 3.4 | 27,219 | 3.4 | 26,403 | 3.4 |
| Total Western Europe | 178,977 | 21.1 | 183,329 | 21.2 | 181,130 | 21.1 | 166,645 | 20.5 | 165,133 | 21.0 |

# Table 53 (continued)

## World Production of Raw Steel by Countries

(Thousands of Net Tons)

| Countries | 1990p Tons | % | 1989r Tons | % | 1988r Tons | % | 1987r Tons | % | 1986r Tons | % |
|---|---|---|---|---|---|---|---|---|---|---|
| **Eastern Europe** | | | | | | | | | | |
| Albania | 110 | ... | 123 | ... | 110 | ... | 110 | ... | 99 | ... |
| Bulgaria | 2,647 | ... | 3,196 | ... | 3,175 | ... | 3,355 | ... | 3,268 | ... |
| Czechoslovakia | 16,328 | ... | 17,047 | ... | 16,953 | ... | 16,993 | ... | 16,658 | ... |
| East Germany | 6,159 | ... | 8,630 | ... | 8,965 | ... | 9,086 | ... | 8,782 | ... |
| Hungary | 3,265 | ... | 3,654 | ... | 3,948 | ... | 3,993 | ... | 4,096 | ... |
| Poland | 14,939 | ... | 16,638 | ... | 18,599 | ... | 18,899 | ... | 18,898 | ... |
| Rumania | 12,125 | ... | 15,890 | ... | 15,778 | ... | 16,493 | ... | 15,736 | ... |
| U.S.S.R. | 169,674 | ... | 176,474 | ... | 179,716 | ... | 178,434 | ... | 176,960 | ... |
| Total Eastern Europe | 225,247 | 26.5 | 241,652 | 27.9 | 247,245 | 28.8 | 247,363 | 30.5 | 244,497 | 31.1 |
| Total Europe | 404,224 | 47.6 | 424,981 | 49.1 | 428,375 | 49.9 | 414,008 | 51.0 | 409,630 | 52.1 |
| **Africa** | | | | | | | | | | |
| Algeria | 1,157 | ... | 1,149 | ... | 1,556 | ... | 1,690 | ... | 1,598 | ... |
| South Africa,Republic of | 9,632 | ... | 10,546 | ... | 9,741 | ... | 9,911 | ... | 9,805 | ... |
| Others | 1,184 | ... | 1,184 | ... | 1,170 | ... | 1,160 | ... | 1,254 | ... |
| Total | 11,973 | 1.4 | 12,879 | 1.5 | 12,467 | 1.5 | 12,761 | 1.6 | 12,657 | 1.6 |
| **Middle East** | | | | | | | | | | |
| United Arab Republic (Egypt) | 2,315 | ... | 2,330 | ... | 2,232 | ... | 1,580 | ... | 1,117 | ... |
| Saudi Arabia | 2,021 | ... | 1,995 | ... | 1,779 | ... | 1,505 | ... | 1,213 | ... |
| Iran | 1,323 | ... | 1,192 | ... | 1,078 | ... | 925 | ... | 924 | ... |
| Others | 872 | ... | 865 | ... | 800 | ... | 780 | ... | 790 | ... |
| Total | 6,531 | 0.8 | 6,382 | 0.7 | 5,889 | 0.7 | 4,790 | 0.6 | 4,044 | 0.5 |
| **Far East** | | | | | | | | | | |
| India | 16,387 | ... | 15,905 | ... | 15,773 | ... | 14,463 | ... | 13,445 | ... |
| Japan | 121,620 | ... | 118,948 | ... | 116,492 | ... | 108,591 | ... | 108,329 | ... |
| South Korea | 25,492 | ... | 24,111 | ... | 21,074 | ... | 18,499 | ... | 16,044 | ... |
| Taiwan | 10,531 | ... | 9,973 | ... | 9,136 | ... | 6,520 | ... | 6,112 | ... |
| China (Mainland) | 74,120 | ... | 67,593 | ... | 65,186 | ... | 61,751 | ... | 57,549 | ... |
| North Korea | 7,716 | ... | 7,639 | ... | 7,529 | ... | 7,418 | ... | 7,275 | ... |
| Others | 7,748 | ... | 6,597 | ... | 6,219 | ... | 5,935 | ... | 5,098 | |
| Total | 263,614 | 31.0 | 250,766 | 29.0 | 241,409 | 28.1 | 223,173 | 27.5 | 213,852 | 27.2 |
| **Oceania** | | | | | | | | | | |
| Australia | 7,294 | ... | 7,421 | ... | 7,040 | ... | 6,724 | ... | 7,357 | ... |
| New Zealand | 843 | ... | 670 | ... | 507 | ... | 451 | ... | 316 | ... |
| Total | 8,137 | 1.0 | 8,091 | 0.9 | 7,547 | 0.9 | 7,175 | 0.9 | 7,673 | 1.0 |
| **Total World** | 849,618 | 100.0 | 865,310 | 100.0 | 858,932 | 100.0 | 811,367 | 100.0 | 786,613 | 100.0 |

NOTE: United States data excludes steel produced by foundries which report their output to the Bureau of Census, but not to American Iron and Steel Institute as follows: 1990–n.a.;1989–1,187r;1988–1,013;1987–830;1986–829;(in thousands of net tons).

Source: United States–American Iron and Steel Institute; Canada–Statistics Canada;Other Countries–International Iron and Steel Institute.

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